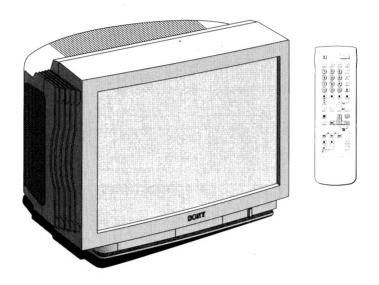
SERVICE MANUAL

AE-2B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.	
KV-A2941A	RM-831	Italian	SCC-G59H-A	KV-A2943E	' RM-831	Spanish	SCC-G56H-A	
KV-A2941B	RM-831	French	SCC-G57H-A	KV-A2941K	['] RM-831	OIRT	SCC-G73H-A	3
KV-A2941D	RM-831	AEP	SCC-Ġ45J-A	KV-A2942U	RM-831	UK .	SCC-G55F-A	







ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF: 21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K L, I	GERMAN Stereo French Nicam	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
uk	I	NICAM Stereo	UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	119W	132W	137Wh	140Wh	137Wh	193W

→ Audio inputs - phono jacks

 Ω Headphone jacks: stereo minijack

€3S video input 4-pin DIN

SPECIFICATIONS

Picture Tube	Super Trinitron Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110° -deflection	Sound output Power requirements	3 x 15W RMS (LRC) 2 x 30W Music Power (LRC) 2 x 4W RMS (S) 2 x 15W Music Power (S) 220 - 240V
Input/Output Term	inals	Dimensions Weight	Approx. 762x557x546 mm Approx. 55kg
[REAR]		Supplied accessories	RM-831 Remote Commander (1)
- inputs for audic - inputs for RGB - outputs of TV v □-2/- 2 21-pin E - inputs for audic - inputs for S vid - outputs for aud □- Audio outputs (video and audio signals curo connector o and video signals leo io and video signals (selectable) (variable) - phono jacks	Other features [RM-831] Remote control system Power requirements	IEC designation R6 battery (1) Center Speaker (1) Surround Speakers (2) NICAM, FASTEXT. Infrared control 1.5V dc 1 battery IEC designation R6 (size AA)
Center and Surr [FRONT]	speaker terminals. round speaker terminals.	Dimensions Weight	Approx. 65x225x21 mm (w/h/d) Approx. 157g (Not including batteries)
€3Video input - p	nono jack		

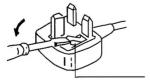
Design and specifications are subject to change without notice.

Model name	KV-A2941A	KV-A2941B	KV-A2941D	KV-A2943E	KV-A2941K	KV-A2942U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
Graphic Equalizer	ON	ON	ON	ON	ON	ON
Dolby	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	OIRT	English

WARNING (KV-A2942U only)

The flexible mains lead is supplied connected to a **B.S.** 1363 fused plug having a fuse of 5 **AMP** capacity. Should the fuse need to be replaced, use a 5 **AMP** FUSE approved by **ASTA** to **BS** 1362, ie one that carries the mark.

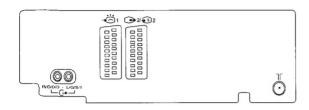
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET. When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

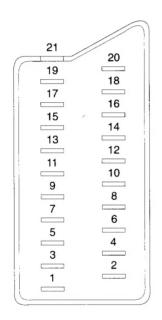


How to replace the fuse. Open the fuse compartment with the screwdriver blade and replace the fuse.

FUSE

21 pin connector (७-1 ⊕ 2 / ⊕ 4)





1	2	4	Signal	Signal level
			Audio output B	Standard level : 0.5V rms
	0	0		Output impedance :Less than 1kohm*
0	0	0		Standard level : 0.5V rms
				Output impedance :More than 10kohm* Standard level : 0.5V rms
0	0	0	(left)	Output impedance :Less than 1kohm*
0	0	0	Ground (audio)	
0	0	0	Ground (blue)	
0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedance :More than 10kohm*
0	•	•	Blue input	0.7 ± 3dB, 75 ohms, positive
0	0	0	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
0	0	0	Ground (green)	
0	0	0	Open	
0	•	•	Green	Green signal: 0.7 ± 3dB, 75 ohms, positive
0	0	0	Open	
0	0	0	Ground (red)	
0	0	0	Ground(blanking)	
0	_	_	Red input	0.7 ± 3dB, 75 ohms, positive
_	0	0	croma input	0.3 ± 3dB, 75 ohms, positive
0	•	•	(Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
0	0	0	output)	
0	0	0	Ground(video input)	
0	0	0	Video output	1V ± 3dB,75ohms,positivesync:0.3V(-3+10dB)
0		_	Video input	1V ± 3dB,75ohms,positivesync:0.3V(-3+10dB)
_	0	0	Video input Y (S signal)	1V ± 3dB,75ohms,positivesync:0.3V(-3+10dB)
0	0	0	Common ground (plug, sheild)	
				Audio output B (right) Audio input B (right) Audio input B (right) Audio output A (left) Audio output A (left) Ground (audio) Ground (blue) Audio input A (left) Blue input Function select (AV control) Ground (green) Open Green Open Ground (red) Ground (stanking) Function select (AV control) Ground (green) Open Ground (green) Ground (red) Ground (stanking) Function select (AV control) Ground (green) Open Ground (green) Open Ground (red) Ground (video) Ground (blanking) Function select (AV control) Ground (green) Open Ground (green) Open Ground (red) Ground (video) Ground (video) Output) Ground (video) Output) Ground (video) Output) Ovideo output Video input Y (S signal) Common ground

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	$1V \pm 3dB 75$ ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.

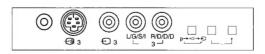


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE ACPOWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENT'S IDENTIFIED BY SHADING AND MARKED & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILIJÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTIUR EST DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

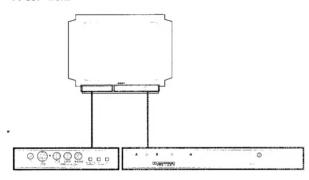
ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÈCURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SOUT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITE DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS IES SUPPLÈMENTS PUBLIÈS PAR SONY.

Overview

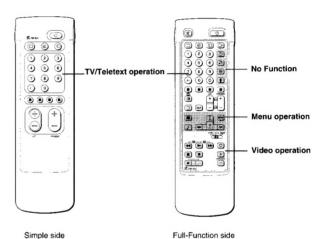
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Symbol	Name	Refer to page
0	Main power switch	42
ტ	Standby indicator	42
A-CD-B	Stereo A/B indicators	44
Ω	Headphones jack	50
- 3, + 3, 3 + 3	Input jacks (S-video/video/audio)	50
₽-4	Function selector (Programme/volume/input)	42
_ + +	Adjustment buttons for function selector	42

Remote Commander RM-831



Note The SAT button does not operate with this TV.

Full-Function side

T1 (T)

Symbol	Name	Refer to Page
咪	Mute on/off button	43
O	Standby button	42
0	TV power on/TV mode selector button	42
=	Teletext button	43
-Đ	Input mode selector	43
\ominus	Output mode selector	51
1,2,3,4,5,6, 7,8,9, and (42
-/	Double-digit entering button	42
С	Direct channel entering button	39
⊿+/-	Volume control button	42
PROGR +	/- Programme selectors	42
₽	Teletext page access buttons	47
•	Picture adjustment button	44
D	Sound adjustment button	44
(On-screen display button	43
	Teletext hold button	47
0	Time display button	43
	Fastext buttons	47

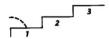
Menu operation

Symbol	Name	Refer to Page
MENU	Menu on / off button	36
△+/▽−	Select buttons	36
OK	OK (confirming) button	36
← Back button		36

Video operation

Symbol	Name	Refer to Page
VTR1/2/3 MDP	Video equipment selector	52
44 ► ►► ■ II ● ७ PROGR +/-	Video equipment operation buttons	52

Step 1 Preparation



Insert the battery into the Remote Commander



Check the correct

are magnetically shielded otherwise picture distortion may occur.

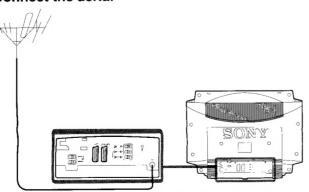
making sure that the Full-Function side is visible to use the menu in Step 3.

Step 2 Connection



Connect the aerial

Remove the cover



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T socket at the rear of the TV.

2 Connecting the speakers

Note: Connect the speakers using the leads provided making sure to observe the following Surrou

polarity:The striped lead is (+)
and should be connected
to the red terminal on the
speaker.

The black lead is (-) and should be connected to the black terminal on the speaker

Note: If you don't connect the centre speaker, set the "Centre Mode" to "Phantom". For details, refer to page 46.

Note: If you prefer to use your own speakers, make sure they are at least 8Ω impedance and

Dolby Pro Logic (*) Surround requires normally 5 speakers, whose functions are as follows: Centre speaker: to anchor the stable sound image, like dialogue, to the TV screen.

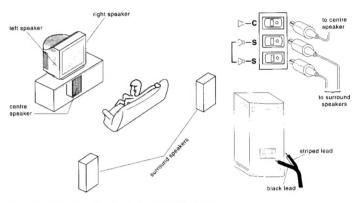
Left and Right front speakers: for the normal two-channel stereo broadcasts.

Surround speakers: for the special effects created by the surround channel.

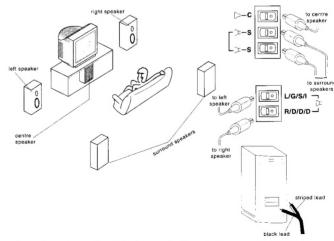
To obtain the full benefit of your Dolby Pro Logic Surround TV, the speakers should be positioned as shown below:

Before switching on: connect the speakers to the TV set.

a. Connect the speakers provided only:-



b. Connect your own speakers:-



(*) Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY and the double-D symbol IID are trademarks of Dolby Laboratories Licensing Corporation.

ω

To go back to the normal TV picture: Press MENU. Normal TV picture will be restored after one functions are not

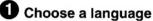
Note on the Demo function: If you choose Demo on the main menu you can see a demonstration of the menu functions. Press MENU to stop

Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 60 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you beain

- Check that the Full-Function side of the Remote Commander is
- Locate Menu operation buttons on the Remote Commander They are shaded in the illustration at the left.



Depress O on the TV.

The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.

2 Press the MENU button. The LANGUAGE menu appears. (See Fig. 1)

3 Select the language you want with △+ or ∨-. and then press OK.



Fig. 1.

MEN





Display the Menu

Press the - button. The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:

"Preset Channels Automatically"

"Preset Channels Manually".

With this method, you can preset all receivable channels at once

To stop automatic channel presetting: Press - on the Remote Commander

- · After presetting the channels automatically you can check which channels are stored on which programme positions. For details. see "Using the Programme Table" on page 43.
- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 39.
- · Programme names are automatically taken from Teletext if available. If not please refer to page 40 "Captioning a station name" for further information.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one You may also allocate programme numbers to various video input sources

If you have made a mistake: Press - to go back to the previous position. To go back to main Keep pressing ←.
To go back to the normal TV picture Press MENU

To tune in a channel by frequency: After selecting F in step 5. enter three digits using the number buttons. Press OK.

Preset channels automatically

- Select Preset with △+ or ∨- and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select Auto Programme with \triangle + or ∇ and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)

Select if necessary the TV broadcast system with \triangle + or \lor - and press OK. (B/G for western European countries, D/K for eastern European countries) The first element of the "PROG" number will be highlighted.

- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with A+ or V- and press OK or select with the number buttons (e.g. For "04", select "0" here). The second element of "PROG" is highlighted.
- 5 Select the second element of the double-digit number with \triangle + or Fig. 5. ∇- or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.
- 6 Select "C" or "S" with △+ or ∇- and press OK. The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press MENU to restore normal TV picture).





515 B/5	PROG.	CH C23

13 Preset channels manually

- Select Preset with △+ or ▽- and press OK. The PRESET menu appears. (See Fig. 6.)
- 2 Select Manual Programme Preset with △+ or ▽- and press The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)
- 3 Using \triangle + or \bigvee -, select the programme position (number button) to which you want to preset a channel, and press OK.

Keep pressing ∨- to select programme numbers higher than 10.

- 4 Select if necessary the TV broadcast system (B/G for western European countries, D/K for eastern European countries) or a video input source (EXT) with △+ or ▽-. Then press OK. The CH position will be highlighted. (See Fig. 8.)
- Using △+ or ▽-, select C (to preset a regular channel), or F (to tune in by frequency), or S (cable channel) and press OK. The first element of the "CH" number is highlighted. If you have selected EXT in step 4, select the video input source with \triangle + or ∇ -. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step "6-Manual".

if you don't know the channel number, go to step "6- Search".

Select 🔯 and press





Fig.8.



Additional Presetting Functions



If you have made a mistake:

ဖ

Press - to go back to the previous position To go back to main menu Keep pressing -To go back to the normal TV picture Press MENU

To adjust the individual

speaker level:

see page 46.

Manual

- -a Select the first element of the "CH" number with \triangle + / ∇ and press OK or select with the number buttons. The second element of the "CH" number is highlighted.
- -b Select the second element of the number with \triangle + / ∇ or the number buttons.
- The selected number appears. (See Fig. 10.)
- -c Press OK
 - The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- -d Press OK until the cursor appears by the next programme position. Fig.12.
- -e Repeat steps 3 to 6 to preset other channels.



- -a Press OK repeatedly until the colour of the SEARCH position
- -b Start searching for the channel with △+ (up) or ∇- (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- -c Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 6 to preset other channels.

4 Presetting Dolby Pro Logic

To enjoy the programmes encoded in Dolby Surround, preset the Digital Surround mode to Dolby Pro Logic.

- Press 1 on the Remote Commander.
- The SOUND CONTROL menu appears (Fig. 14).
- Using $\Delta +$ or $\nabla -$ select Digital Surround then press OK. The current mode appears.
- Using $\Delta +$ or $\nabla -$ select Dolby Pro Logic then Press OK. The Surround mode is set to Dolby Pro Logic.
- 4 Press MENU to return to the normal screen.



2 B/G (0 ig't) ---- (cn:

2 B/G C35 (011) ---- (cm) Fig.11.

8/6 C35 (off) ---- (cm)

2 8/6 €60 (▲▼)

PROGRAMME SORTING



For higher programme positions:
The display scrolls

If you have made a mistake: Press to go back to the previous

To go back to main Keep pressing -. To go back to the normal TV picture: Press MENU.

This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- Press MENU to display the main menu.
- Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Programme Sorting with △+ or ∇- and press OK The PROGRAMME SORTING menu appears. (See Fig. 15.)
- 4 Using △+ or ∇-, select the programme position you want to move to another programme position and press OK. The colour of the selected position changes. (See Fig. 16.)
- 5 Using △+ or ▽-, select the programme position to which you want to move the selected programme and press OK. Now the two programme positions have been sorted. (See Fig. 17.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.

PROGR	AMME S	ORTING			
PROG	CH	LABEL	PROG	6:1	LABEL
0	AV1	VHS	₽8	C29	LIA
1			9	C35	0.4
2 3	C52	BBC1	10	€02	
3	0.61	BBC2	11	0.02	
4			12	0.02	
4 6	VICEO	8HH	13	0.02	
6	002		1.4	0.02	
7	0.02		15	C02	

Fig. 15.

C C	AVI	VIIS	8	C29	LfV



Fig. 17.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander

- 1 Press C on the Remote Commander, For cable channels, press
 - The indication "C" ("S" for cable channels) appears on the
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).



0

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ∨- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and The MANUAL PROGRAMME PRESET menu appears, (See Fig. 18.)
- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK. The "SYSTEM" position changes colour.
- 5 Press △+ or ▽- until --- appears in the SYSTEM position. (See Fig. 19.)
- 6 Press OK. (See Fig. 20.) When you select programmes using the PROGR +/- buttons. the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.



If you have made a

Press - to go back to

the previous position.

To go back to main

Keep pressing -.

To go back to the

Press MENU.

normal TV picture:

mistake:

Captioning a Station Name

Programme names are automatically taken from Teletext if available. However you can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are

- 1 Press MENU to display the main menu
- 2 Select Preset with △+ or ∨- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ∨- and
 - The MANUAL PROGRAMME PRESET menu appears. (See Fig. 21.)
- 4 Using △+ or ∨-, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with △+ or ∨- and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 22.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 23.)
- 7 Repeat steps 5 and 6 to caption names for other channels.



2306	585	CE	STARCH.	CABEL	A-1
P 1	157.6	0.21	10000		fan l
2	B76	024	fall 1		fagl
3	B/G	5.2%	intil		(39)
4	B/6	157	(off)		1003
4	B/12	0.28	foff)		cont
5	3/14	0.27	(off)		Cont
1	5/6	1.26	telly		Cape 3
R	3/0	C25	(oll)		Cor 3
- 0	3/6	0.23	(ett)		Comp
10	8/0	(29	10111		Cont

Fig. 18.

Fig. 19.

4 B/G

Fig. 20.

PREG	SYS	Cli	SHARCH	LABEL	4:1
P	B/G		Cotto		1300
2	876	524			4000
5	97G	6.25	(oft)		time)
4	5/6	127	(off)		(0:)
5	37 C	1.58	16.111		Cors
6	370	€22	10111		fee:
1	8/6	0.26	10011		fice?
6	B/G	172%	3 (13.13)		(an)
11	B/G	623	10111		1007
10	B7.6		(011)		:00)

Fig. 21.

Fig. 22.

₱ 2 B/G 12901aff(;SONY (en))

Fig. 23.

PRESET

MANUAL PROGRAMME Manual Fine-Tuning

Normally, the AFT(automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with \triangle + or \heartsuit and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 24.)
- 4 Using \triangle + or \bigvee , select the programme position corresponding to the channel which you want to manually fine-tune, and press
- OK repeatedly until the AFT position changes colour. Fine-tune the channel with \triangle + or \vee - so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 25.)
- 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 26.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

PROG		CF SEARCH	LABIL A::
1	B/6	C21 (of*)	1003
2	B/G	C24 (off)	fon)
3	B/G	C25 (off)	: 99)
-1	3/6	C27 (of1)	(09)
234567	370	C28 (oll)	(09)
6	3/17	C22 (611)	(on)
1	870	(26 to 11)	(cer)
83	B/C	(25 Get1)	(gr)
13	B/G	C23 (pH):	(or)
10	B/G	C29 (aff)	0000

Fig. 24.

2 B/G C35 (off) (3)				
	2	B/G	C35 (off)	(3)

Fig. 25.

- 2	3/C	(40:p(f)	(3)
P 3	3/0	(45 (a(1)	(4)(-)

Fig. 26.

PARENTAL LOCK

To reactivate AFT

beginning and select

If you try to select a

programme that has

The message "LOCKED"

appears on the blank TV

been blocked:

Repeat from the

"ON" in step 5.

(automatic fine tuning):

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or V- and press OK. The PRESET menu appears.
- Select Parental Lock with \triangle + or \vee and press OK. The PARENTAL LOCK menu appears. (See Fig. 27.)
- Using △+ or ∨-, select the programme position you want to block and press OK. The CH and LABEL, of the selected programme number, change Fig. 27.

colour indicating that this programme is now blocked. (See Fig. 28.)

5 Repeat step 4 to block other programme positions.

Cancelling blocking

- On the PARENTAL LOCK menu, select the programme position you want to unblock with A+ or V-.

The CH and LABEL change to normal colour indicating that the blocking has been cancelled

K
L PROG CHI LABIT
8 €38
9 039
10.140
11 041
12 042
13 043
14 C44
15 045

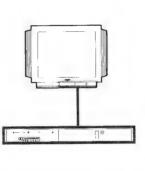
PROGREE LAS	GI PROS	OH LABE	
3 AVI VHS			
: C22 B50	.2		
2 042 880	ii.		
▶ 3 026 04			

Fig. 28.

Operating Instructions

For details of the teletext operation, refer to

For details of the video input picture, refer to



00.000 ...

To make the Programme

Watching the TV

0 9 9

1) (2) (3)

(4) (5) (6)

7.89

 $\odot \odot \odot \odot$

If no picture appears

when you depress ①

indicator on the TV is lit.

mode Press ○ or one of the number buttons to switch it on.

and if the standby

the TV is in standby

on the TV

(-)- (<u>0</u>)

0

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress Oon the TV.

Switching off temporarily

Press & on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press O. PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress @ on the TV.

Selecting TV Programmes

Press PROGR +/- or press number buttons

To select a double-digit number

Press -/- -, then the numbers. For example, if you want to choose 23, press -/--, 2, and

Adjusting the Volume

Press 4+/-.

Operating the TV Using the **Buttons on the TV**

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press ₽-✓-- button repeatedly until the programme 1 (for valume), or - (for video input picture) appears. Then adjust with the -/+ buttons.
- · Press -/+ buttons to switch on the TV from the standby
- Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET symbol →++ is displayed).

page 51. 0000



Table disappear Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press @ to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press (PAGE +) or (PAGE –) for the next or preceeding
- To go back to the normal TV picture, press .

Watching a video input picture

Press Tepeatedly until the desired video input appears. To go back to the normal TV picture, press O.

Starlight Music mode

When you connect an audio source (e.g. CD player) to ⊕3 of the front and select 3 or 3, this TV automatically goes into the Starlight Music mode. In this mode, the Graphic Equalizer appears for a while leaving a starlight scene to indicate that the TV is still on

This mode may appear in other cases when the video signal of ⊕3 or ⊕33 is absent.

More Convenient Functions

Use the Full-Function side of the Remote Commander

Displaying the on screen indications

- Press Tonce to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press 🕸

To resume normal sound, press of again.

Displaying the time

Press . This function is available only when teletext is

To make the time display disappear, press @ again.

Displaying of the Programme Table

Press OK, A Programme Table will be displayed on the right side of the TV screen (See. Fig.29)

Selecting of TV programmes

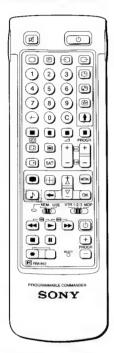
Press PROGR +/- or select the desired programme position using \triangle + or \bigvee - and press OK.



Fig.29.

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



If you have made a mistake:

Press to go back to the previous position.

To go back to the main menu:

Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Note:

HUE is only available for NTSC colour system.

Note on BALANCE:

Balance control can only be used when Digital Surround is in "OFF" or "Simulated" modes. The level of left and right speaker volume is set using the Dolby Pro Logic set up menu (see page 46)

When watching a video input source with stereo sound:

You can select DUAL SOUND to change the sound.

When watching a programme in dual sound mode: Digital Surround Mode becomes OFF automatically.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones (Ω) or individually adjust and store the volume level of each channel (Volume offset). Also you have the possibility to adjust the sound to your individual taste using the Graphic Equalizer and special Sound effects.

1 Press ● (for picture) or ♪ (for sound) on the Remote Commander.

OI

Press MENU and select Picture Control or Sound Control, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 30 or Fig. 31)

- 2 Using △+ or ▽-, select the item you want to adjust and press OK.The selected item changes colour. (See Fig. 32)
- 3 Adjust the setting with △+ or ▽ and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 33) For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.

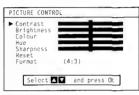


Fig. 30.



Fig. 31.



Fig. 33.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less ——I—— More
Brightness	Darker ——I—— Brighter
Colour	Less ——I—— More
Hue	Greenish Reddish
Sharpness	Softer ——I—— Sharper
Reset	Resets picture to the factory preset levels.
Format	4:3 Normal 16:9 wide screen effect

SOUND CONTROL	Effect
Graphic Equalizer	(See page 45 for more information)
Balance	More left —I— More right
[Digital] Surround	OFF: Normal ON: Choice among special sound effects: Dolby Pro Logic → Hall → Arena → Dome ↑ OFF ← Simulated (gives width to a ←
	monaural source)
Dolby Pro Logic Set Up	(See page 46)
Dual Sound	A: left channel B: right channel stereo mono The selected mode of the A-CD-B indicator on the TV light □p.
Volume offset	-7 Less 0 More +7
Headphones:	
○ Volume	Less —I— More
∩ Dual Sound	A : left channel B : right channel STEREO MONO

Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

Flat → POP → Rock → Jazz → Vocal → User

- 1 Select Sound Control in the main menu, then select Graphic Equalizer using △+ or ▽- and press OK. The GRAPHIC EQUALIZER menu appears (see Fig. -34).
- 2 Press OK. The colour of "Mode" changes. Select the desired mode with △+ or ▽- and press OK.
- 3 If you want to modify a mode, select the desired bar of a frequency band using △+ or ▽- and press OK. The selected bar changes colour. Using △+ or ▽- adjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.
- Press MENU to return to the normal TV mode.

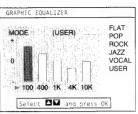


Fig -34.

PROGRAMME TABLE

To go back to the normal TV picture: Press MENU.

Note: The modifications

made in "USER" mode

will be stored. All other settings are reset to

factory-set level when you

change to another mode.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

1 From the main menu, select Programme Table with △+ or ∇- and press OK.

The PROGRAMME TABLE menu appears. To scroll to higher programme numbers, press ∇ -.

2 To select a programme using this menu select the programme number with △+ or ▽- and press OK.
The selected programme appears.

TIMER

To switch off the timer: Select "OFF" in step 3.

To check the remaining time: Press .

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

From the main menu, select Timer with △+ or ▽- and press OK.

The TIMER menu appears.

2 Press OK.

The time period option changes colour.

3 Select the time period with \triangle + or ∇ -.

The time period (in minutes) changes as follows: $10\rightarrow20\rightarrow30\rightarrow40\rightarrow50\rightarrow60\rightarrow70\rightarrow80\rightarrow90$

OFF -

4 After selecting the time period, press OK.

The cursor moves back to the left margin and the timer starts counting.

One minute before the TV switches into standby mode, a message is displayed on the screen.





Dolby Pro Logic set up

Using this function you can experience panoramic effects of sound. Before starting, connect the enclosed centre speaker and the surround speakers. Or you can use your own speakers (at least 8Ω impedance) instead. (See page 35).

To enjoy the best sound from your TV The Dolby Pro Logic mode should be selected when the source material you are watching is Dolby Surround encoded.

- Select Sound Control in the main menu, then select Dolby Pro Logic set up using Δ+ or ∇- and press OK. The Dolby Pro Logic Setup menu appears. (Digital Surround is set to Dolby Pro Logic mode automatically). (Fig. 35).
 - The following steps 2 to 7 are necessary only when you install the TV and the speakers or change their positions. Once having adjusted the volume in each of the speakers to the same listening level, you can always obtain the best effects at the listening position.

In other cases, press ∇- and go to step 8.

2 Press OK

The cursor moves to the position of L(Left speaker volume) and a test tone outputs in the left speaker. (Fig.36)

- 3 Press OK if you want to adjust the volume of L, or press repeatedly △+ or ∇− to select ℂ (Centre speaker). ℝ (Right speaker). ⅀ (Surround speakers) and press OK. The selected bar is highlighted.
- 4 Press ∆+ or ∇− to adjust the volume. The highlighted bar changes its height accordingly.
- 5 Press OK.

The cursor moves to the next speaker.

- 6 Repeat steps 3 to 5 to adjust other volumes according to your
- 7 Press ← to exit Level Setting.
- 8 Press ∇- to select Centre Mode.
- 9 Press OK to change Centre Mode.
- 10 Select the mode using Δ + or ∇ and press OK.

Normal: The centre speaker is active. Normally select this mode when the centre speaker is connected.

Phantom: If you are unable to connect the centre speaker, select this mode. No sound comes from the centre channel and the left and right speakers compensate creating a "phantom" centre image.

11 Press MENU to return to the normal screen.

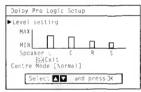
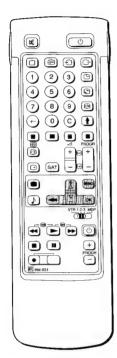


Fig. 35.



Fig. 36.

Teletext



Note:

Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:

You can switch teletext on and off, operate Fastext, and directly select page numbers. TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- Select the TV channel which carries the teletext broadcast you want to watch.
- Press to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then reenter the correct page number.

With page-catching

- Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using △+ or ▽-, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press
to resume normal teletext reception.

Accessing next or preceding page

Press (PAGE +) or (PAGE −). The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press

 again to resume normal teletext reception.

Preventing a teletext page from being updated

- Press (HOLD). The HOLD symbol "" is displayed on the information line.
- Press

 to resume normal teletext reception.

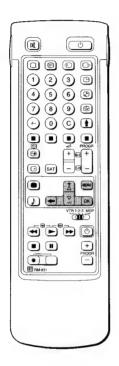
Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Note:

Fastext operation is only possible, if the TV station broadcasts Fastext signals.



Note:

Some of the features may not be available depending on the Teletext service.

Note on Subtitles:

If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request: Select "OFF" for the TIME PAGE setting.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press MENU. The menu will be superimposed on the teletext display. (See Fig. 37)
- 2 Using △+ or ▽-, select the teletext function you want and press OK. (See Fig. 38)

USER PAGES/PRESET USER PAGES

See page 49 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 39)

Press \triangle + for Top to enlarge the upper half. For Bottom keep pressing ∇ -, to enlarge the lower half. Press OK for Full to resume the normal size.

Press
to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 40).

Press (a) to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 41)

Using \triangle + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press
to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

- 1 Press OK, using \triangle + or ∇ -, select ON and press OK.
- 2 To select the desired page, enter the three digits of the page number using the number buttons.
- To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons. Press MENU. The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.



Fig. 37.



Fig. 38.



Fig. 39.



Fig. 40.

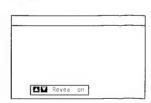


Fig. 41.

To cancel the request: Select "Subpage" and press OK.

If two broadcasting stations use the same Teletext:

You can preset one bank to 2 different programme positions.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/— or the number buttons. (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- **2** Select PRESET USER PAGES with \triangle + or ∇ and press OK.
- 3 Select the desired bank with △+ or ▽- and press OK. The cursor will go to the first position (P1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons and press OK. The cursor will go to the second position.
- Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- 6 Select Allocate Bank with \triangle + or ∇ and press OK.
- 7 Select the programme position for which you have preset pages with △+ or ▽- and press OK. (See Fig. 42)
- 8 Select the desired bank with △+ or ▽- (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- Select MENU.
- 2 Select User Pages with △+ or ▽- and press OK. A table of the stored preferred pages will be displayed. (See Fig. 43)
- 3 Select the desired page with △+ or ▽- and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.



Fig.42.



Fig. 43.

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VCRs, video disc players, and stereo systems.

To connect a VCR using the ☐ terminal: Connect the aerial output of the VCR to the aerial terminal of the TV.

We recommend that you tune in the signal to programme number "0". For details see "Preset Channels Manually" on page 37.

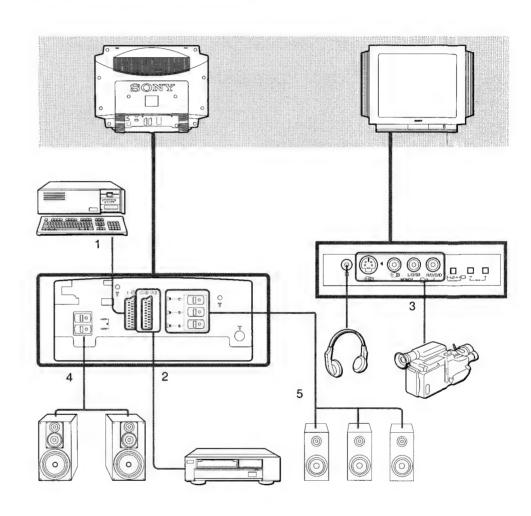
If the picture or the sound is distorted: Move the VCR away from

S video input (Y/C

input): Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance).
This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

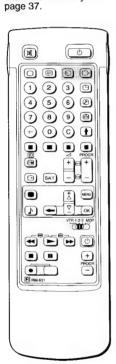
When connecting a monaural VTR:

Connect only the white jack to both the TV and VCR.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)
5 No inputs	Audio signal (variable)

Selecting input with PROGR +/- or number buttons You can preset video input sources to the programme positions so that you can select them with PROGR +/or number buttons. For details, see "Preset channels manually" on



Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press - repeatedly to select the input source.

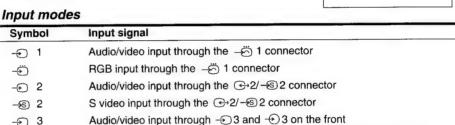
The symbol of the selected input source will appear.

To go back to the normal TV picture

Press O.

→ 3

-⊛ 3



S video input through the - 3 connectors on the front (4-pin connector)

You can also select the input mode using the and -/+ buttons on the TV. In this case, first select -, and then press -/+ buttons to select the input.

Selecting the output

The \bigcirc 2/ \bigcirc 2 connector outputs the source input from the other connectors.

Press - repeatedly to select the output. The symbol of the selected output source appears.

Output modes

Symbol	€-2/® 2 connector outputs	
1 ⊖	The audio/video signal from the — 1 connector	
2 →	The audio/video signal from the ⊕2/®2 connector	
2 🖼	The audio/S video signal from the ⊕2/- so connector	
3 ⊖	The audio/video signal from the ⊕3, ⊕3 connectors	
3 🕪	The audio/S video signal from the $-\$3$, $+\$3$ connectors	
TV⊖	The audio/video signal from the ☐ aerial terminal	

1 ()

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

1 Select Video Connection with △+ or ▽- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 44)

You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.

- Select TV Screen (input source for the TV screen) or output (output source) with △+ or ▽- and press OK. One of the source items changes colour. (See Fig. 45)
- 3 Select the desired source with △+ or ▽-. (See Fig. 46) For details about each source, see the table on page 51.
- 4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 47)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

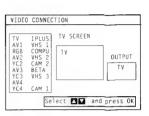


Fig. 44.



Fig. 45.



Fig. 46.

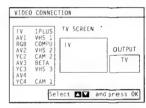


Fig. 47.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta VCR

VTR 2: 8mm VCR

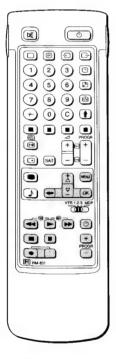
VTR 3: VHS VCR

MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



When recording
When you use the ●
(record) button, make
sure to press this button
and the one to the right
of it simultaneously.

For Your Information

Troubleshooting

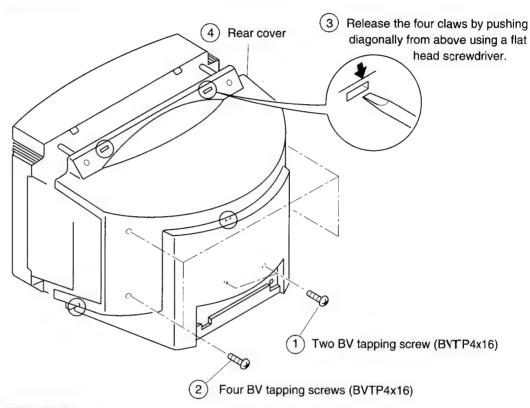
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution	
No picture (screen is dark), no sound	Plug the TV in.	
	 Press ⊕ on the TV. (If ⊕ indicator is on, press ⊕ or a programme numbe on the Remote Commander.) 	
	Check the aerial connection.	
	 Check if the selected video source is on. 	
	\bullet Turn the TV off for 3 or 4 seconds and then turn it on again using ${\tt 0}$.	
Poor or no picture (screen is dark), but good s	sound • Press to enter the PICTURE CONTROL menu and adjust BRIGHTNESS, CONTRAST and COLOUR.	
Poor picture quality when watching an RGB video source	Press → repeatedly to select → .	
Good picture but no sound	• Press ∠ +.	
	 If	
No colour for colour programmes	 Press ■ to enter the PICTURE CONTROL menu, select RESET, then press OK. 	
Remote Commander does not function.	Replace battery.	

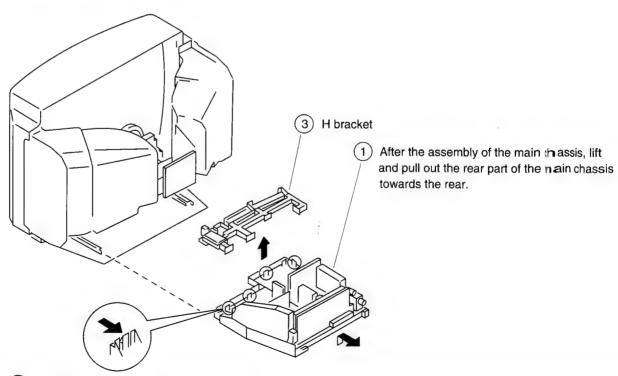
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

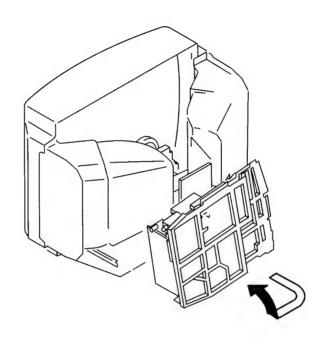


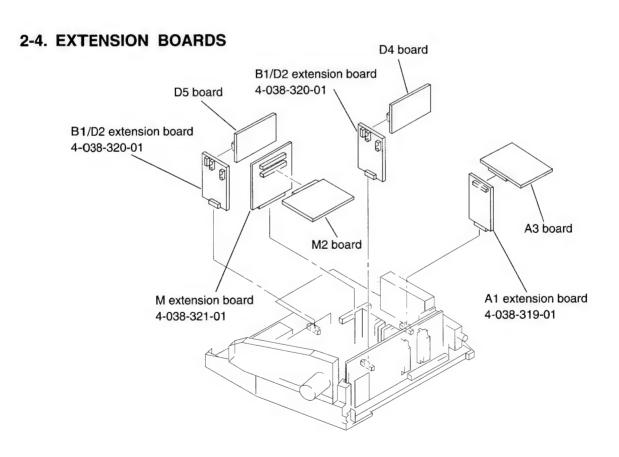
2-2. CHASSIS ASSY REMOVAL



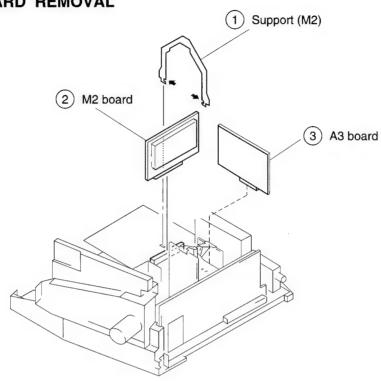
2 Push the four claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

2-3. SERVICE POSITION

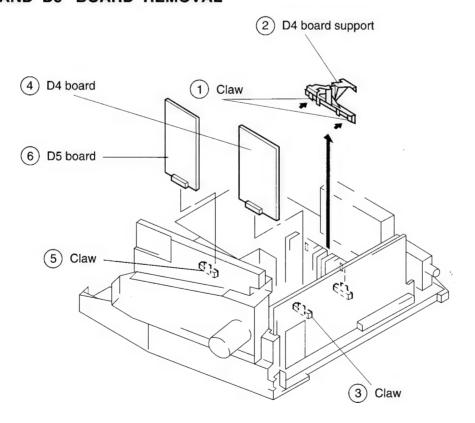




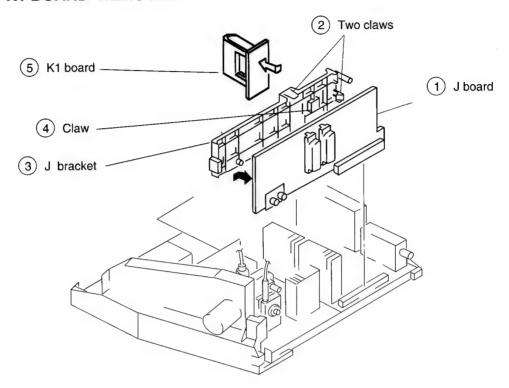
2-5. M2 AND A3 BOARD REMOVAL



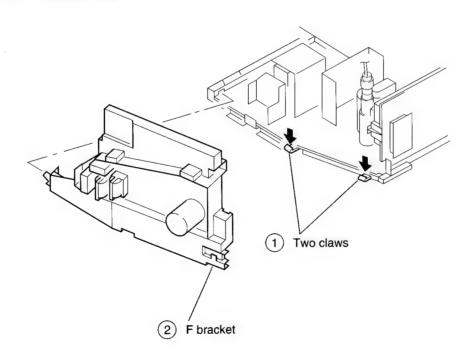
2-6. D4 AND D5 BOARD REMOVAL



2-7. J AND K1 BOARD REMOVAL

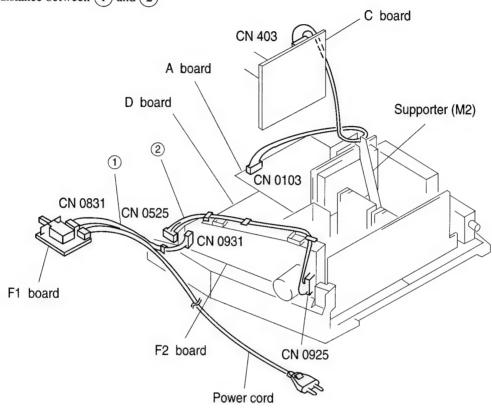


2-8. F BRACKET REMOVAL

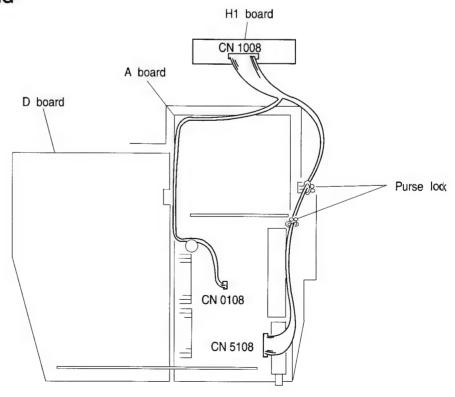


2-9-1. WIRE DRESSING

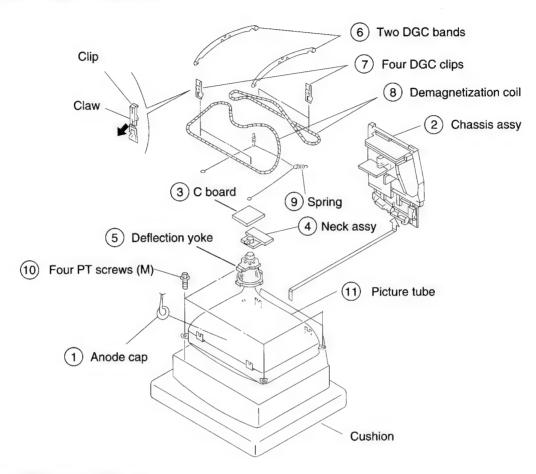
* Keep distance between (1) and (2)



2-9-2. WIRE DRESSING



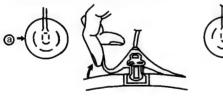
2-10. PICTURE TUBE REMOVAL

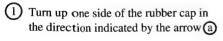


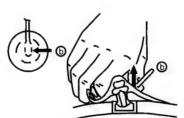
REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

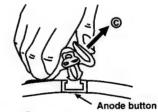
* REMOVING PROCEDURES.







2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **(b)**



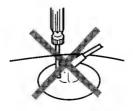
When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

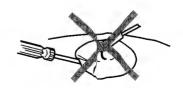
HOW TO HANDLE AN ANODE-CAP

- 1 Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!

A metal fitting called as shatter-hook terminal is built into the rubber.

3 Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:
 - ◆ Contrast 80% (or remote control normal)

☆ Brightness 50%

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 Contrast Brightness

 normal
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1-3-3)
- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

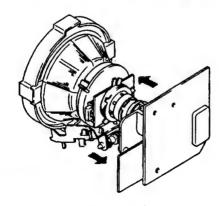
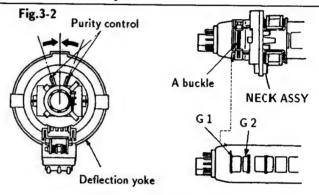
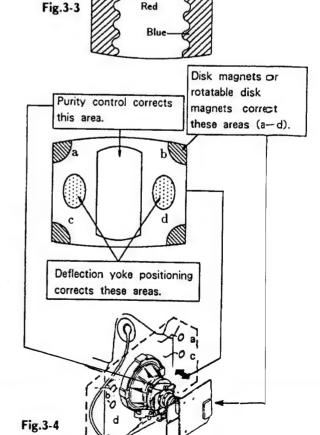


Fig.3-1

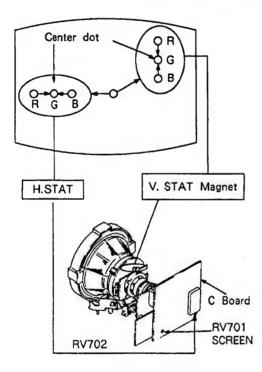




3-2. CONVERGENCE

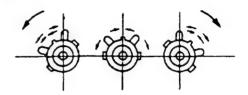
Preparations:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.
- (1) Horizontal and vertical static convergence

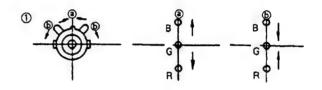


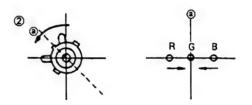
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
 (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

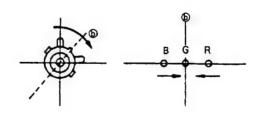
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

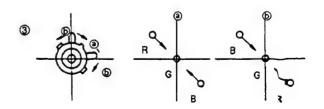


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

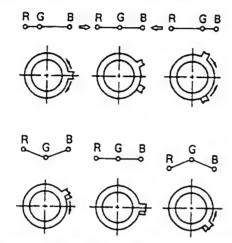






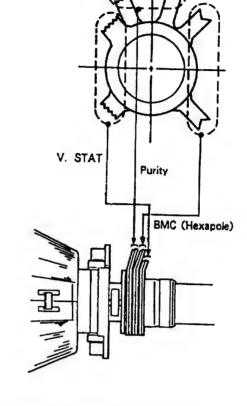


• Operation of BMC (Hexapole) Magnet



 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

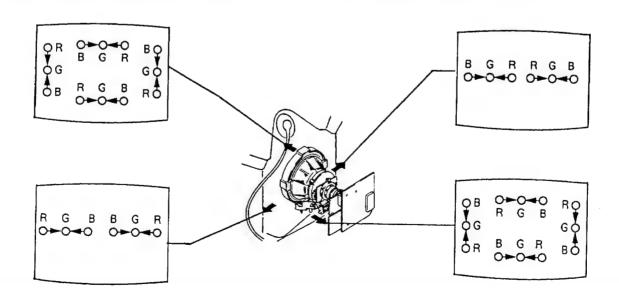
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment

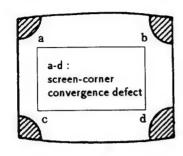
Preparations:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the deflection yoke spacer.

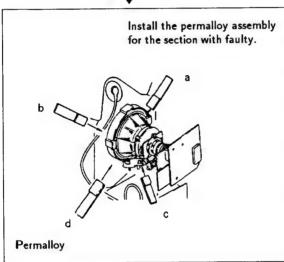


(3) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.

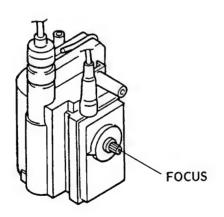






3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

- 1. Receive all-white signal.
- 2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
- 3. Select CXA1587S on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

- 4. Set picture to MAX.
- 5. Adjust G-DRIVE B-DRIVE with ♣, ▶ but tons so that the white balance becomes optimum.
- 6. Press OK button to write the data for each item.
- 7. Set picture to MIN.
- 8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R
 -MANUAL CUT OFF, G-MANUAL CUT OFF and
 B-MANUAL CUT OFF with ♠ butons so
 that the white balance becomes optimum.
- 9. Press OK button to write the data for each it em.

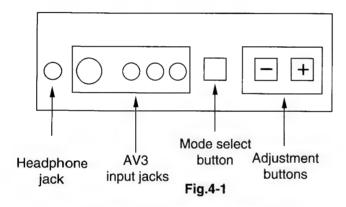
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

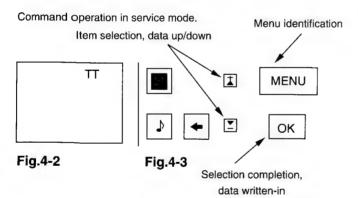
Service adjustment to this model can be performed with the supplied remote commander RM-831

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.



2. "TT" will appear at the upper right corner of the screen.



3. Press the MENU button on the remote commander to obtain the menu on the screen.

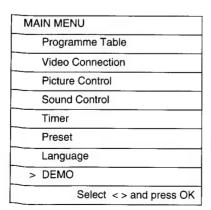


Fig.4-4

- 4. Press the ▲ and ≚ buttons on the remote commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

DE	EVICES
	Initialize
>	CXA1587
	CXD2018
	TDA9145
	CXA1526
	TDA6612
	CX7948A
	P/P service
	Select < > and press OK

Fig. 4-5

7. If adjustment item is CXA1587, press the button and move > to CXA1587.

▼

CXA1587

CXA1587		
Item No	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- 9. Press <u>▼</u> button and move > to the adjustment item and press <u>OK</u> button.
- 10. Press ★ and ▼ buttons to change the data in order to comply with each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when adjustments are completed.

PICTURE	53
COLOR	31
BRIGHT	31
HUE	31
SHARPNESS	12
RGB PICTURE	7
SUB CONTRAST	ADJ.
SUB COLOR	ADJ.
SUB BRIGHT	ADJ.
SUB HUE	8
VM LEVEL	2
NR LEVEL	0
ABL MODE	0
G-DRIVE	ADJ.
B-DRIVE	ADJ.
G-AUTO CUT OFF	ADJ.
B-AUTO CUT OFF	ADJ.
	ADJ.
G-MANUAL CUT OFF	ADJ.
	ADJ.
	8
	3
	2
	ADJ.
	15
	0
	1
	ON
	OFF
	36
	ON
	12
	2
	3
	OFF
	OFF
	OFF
	OFF
	ON
	ON
	ON
	OFF
	OFF
AXIS	PAL .
HUE OFF	OFF
	OFF
	OFF
V EXTENSION	OFF
V EXTENSION AFC 1	1
V EXTENSION	
	HUE SHARPNESS RGB PICTURE SUB CONTRAST SUB COLOR SUB BRIGHT SUB HUE VM LEVEL NR LEVEL ABL MODE G-DRIVE B-DRIVE G-AUTO CUT OFF R-MANUAL CUT OFF

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

Typical On Screen Display based values when $\mathsf{rece}_{}$ i ving PAL Phillips pattern.

TDA6612	ADJ
Stereo-Separation	(31)

Should be adjusted twice, once for 4:3 and once for 16:9 mode.

Y FILTER ADJUSTMENT

- 1. Input a PAL RED pattern.
- 2. Connect an oscilloscope to pin ① of CN0403 (R OUT) on C board.
- 3. Enter into service mode and press 3,8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element at CN0403 pin (1).

SUB BRIGHTNESS ADJUSTMENT

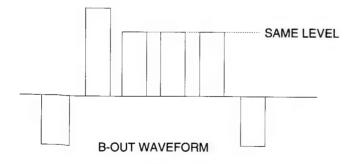
- 1. Input a Phillips pattern.
- 2. Enter into service mode and press 23.
- 3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a Black Background.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Connect oscilloscope to pin ① of CN0403 (R OUT) and adjust data to obtain 2.5Vp-p.

SUB COLOR ADJUSTMENT

- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (3) of CN0403 (B OUT) on the C board.
- 3. Enter into service mode and press 22 of CXA1587, 8 SUB COLOR.
- 4. Adjust data so that the right sides of the waveform are set to the same level.



STEREO-SEPARATION ADJUSTMENT

- 1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound is not detected in the Right-ch and the Left-ch.

DRIVE AND CUT-OFF

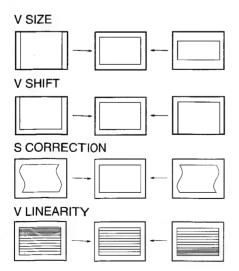
See direct test mode list attached and refer to sub brightness or such for adjustment method.

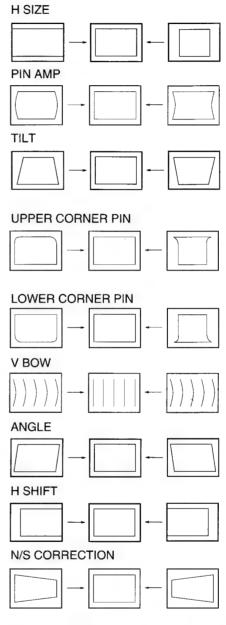
DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD2018.
- 2. Select and adjust each item in order to obtain the optimum image.

CXD2018

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.





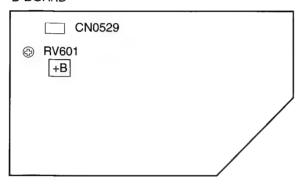
3. Press OK button to write data.

If the menu display prevents accurate adjustment, pess $\stackrel{>}{\simeq}$ to clear, to resume, press $\stackrel{>}{\simeq}$ once again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

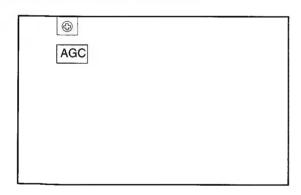
+B (+135V) ADJUSTMENT (RV601)

D BOARD



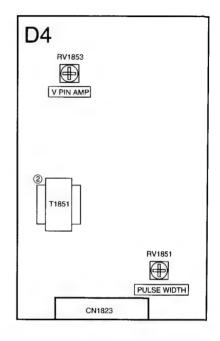
- 1. Switch on the power to the TV set.
- 2. Connect a digital multi-meter to pin ① of CN0529 on D board.
- 3. Adjust RV601 on D board to $+135V \pm 0.5V$.

AGC ADJUSTMENT (IF BLOCK)

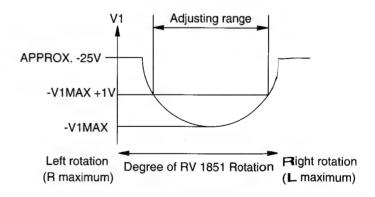


- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

PULSE WIDTH & V-PIN ADJUSTMENTS (RV 1851/185



- 1. Connect an oscilloscope to pin (2) of T1851.
- 2. Preset RV-1853 to center of its range (mechanical center).
- 3. Adjust RV-1851 to obtain minimum amplitude.
- 4. Switch the oscilloscope input to D.C.and adjust RV-1853 to obtain -33.2 \pm 0.5 V.



4-3. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

oo switch Test Mode 2 off o1 picture maximum o2 picture minimum o3 Volume 35% o4 Volume 50% o5 Volume 65% o6 Volume 80% Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) o9 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness 24-29 dummy				
picture minimum 03 Volume 35% 04 Volume 50% 05 Volume 65% 06 Volume 80% Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	00	switch Test Mode 2 off		
03 Volume 35% 04 Volume 50% 05 Volume 80% 06 Volume 80% 07 Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) 08 Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	01	picture maximum		
04 Volume 50% 05 Volume 65% 06 Volume 80% Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	02	picture minimum		
O5 Volume 65% O6 Volume 80% Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of µ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) O9 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Colour 23 Sub Brightness	03	Volume 35%		
Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of µ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Colour 23 Sub Brightness	04	Volume 50%		
Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Colour 23 Sub Brightness	05	Volume 65%		
Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.) Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) O9 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Colour 23 Sub Brightness	06	Volume 80%		
factory setting, Prog 1 is selected, TT Mode is switched off) 09 dummy 10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	07	Brightness max., Ageing 2 Mode of CXA1587,		
10 Tenth entry is deleted 11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	08	factory setting, Prog 1 is selected, TT Mode is switched		
11 Balance 12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction 15 Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	09	dummy		
12 Hue 13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	10	Tenth entry is deleted		
13 Display of Software Version and TV set configeration 14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	11	Balance		
14 Adjustment of N/S Correction Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	12	Hue		
Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. Preset Level for AV Sources dummy Stereo Seperation Tenth entry is deleted Sub Contrast Sub Colour Sub Brightness	13	Display of Software Version and TV set configeration		
15 Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) 16 Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	14	Adjustment of N/S Correction		
16 Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM. 17 Preset Level for AV Sources 18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	15	Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to		
18 dummy 19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	16	Memorize actual used values Balance, Treble, Bass,		
19 Stereo Seperation 20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	17	Preset Level for AV Sources		
20 Tenth entry is deleted 21 Sub Contrast 22 Sub Colour 23 Sub Brightness	18	dummy		
21 Sub Contrast 22 Sub Colour 23 Sub Brightness	19	Stereo Seperation		
22 Sub Colour 23 Sub Brightness	20	Tenth entry is deleted		
23 Sub Brightness	21	Sub Contrast		
	22	Sub Colour		
24-29 dummy	23	Sub Brightness		
	24-29	dummy		

30	Tenth entry is deleted	
31	Green Drive	
32	Blue Drive	
33	Green Cut Off (Auto Cut Off)	
34	Blue Cut Off (Auto Cut Off)	
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)	
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)	
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)	
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode)	
39	dummy	
40	Tenth entry is deleted	
41	Default setting of CXA1587 (Only available in Prog 99)	
42	Default setting of CXA2018 (Only available in Prog 99)	
43	Default setting of CXA1526 (Only available in Prog 99)	
44	(all Port High) Not yet	
45	(all Port High) Not yet	
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter	
47-48	dummy	
Erase the NVM Testbyte (this byte detects a stored NVM's) After selecting this function, s Off and On -> the NVM will be preset by μ-C (Not the channel data)		

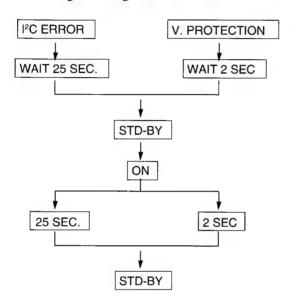
Note: For No 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched ON and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by the Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnostic system operates as follows.

 When the microprocessor is unable to receive an acknowledgement back from the device, the LED starts flashing according to the table below.



In the case of more than one error in parallel, the blinking error shows max priority according to the error number (e.g. error 2 and error 5 appear together, then LED,s show error 2).

ERROR TABLE

ERROR COUNT	IC TYPE	FUNCTION	
1	II C BUS	SDA low	
2	X24C16	EPROM	
4	TDA9145	Colour decoder	
5	CXA1587	RGB/Jungle	
6	TDA6612	Sound processor	
7	CXD2018	V deflection	
8	CXA1545	AV switch	
11	SDA5248 Text		
13		V protection	

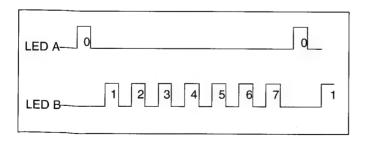
Stand By LED blinking

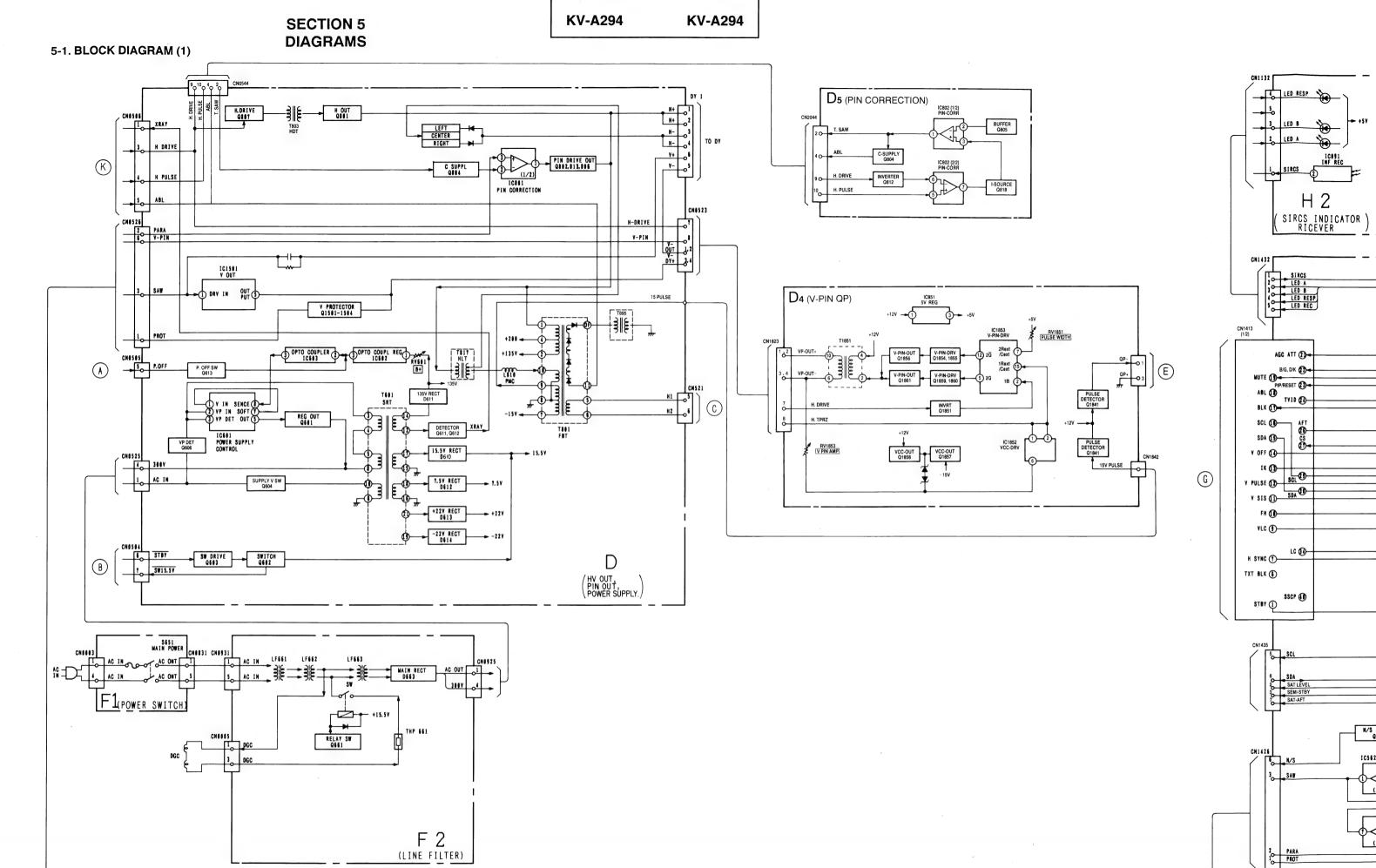
No 1Kreturn

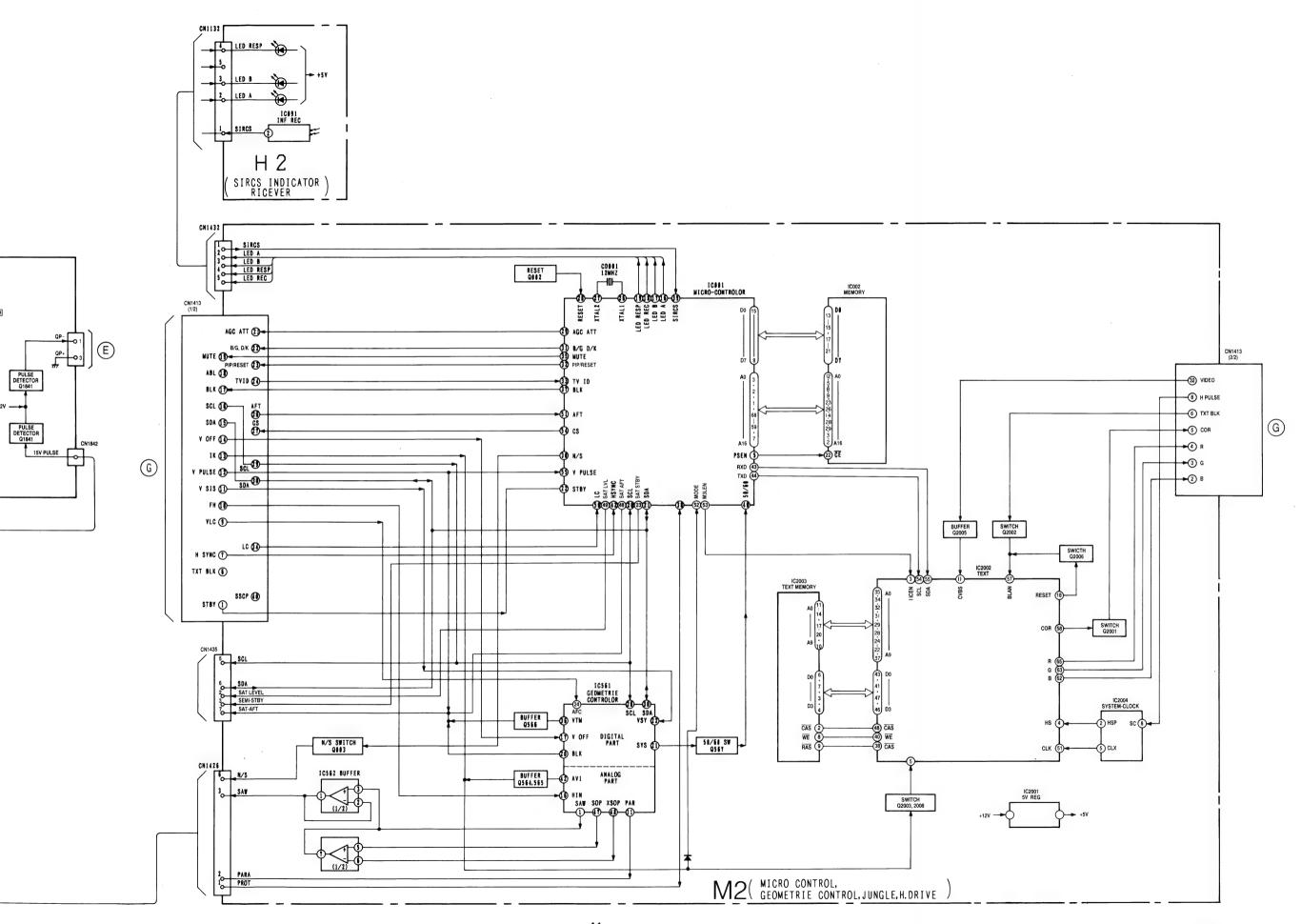
4-5. ERROR I²C BUS DIAGNOSTIC SYSTEM FOR AE2-B CHASSIS.

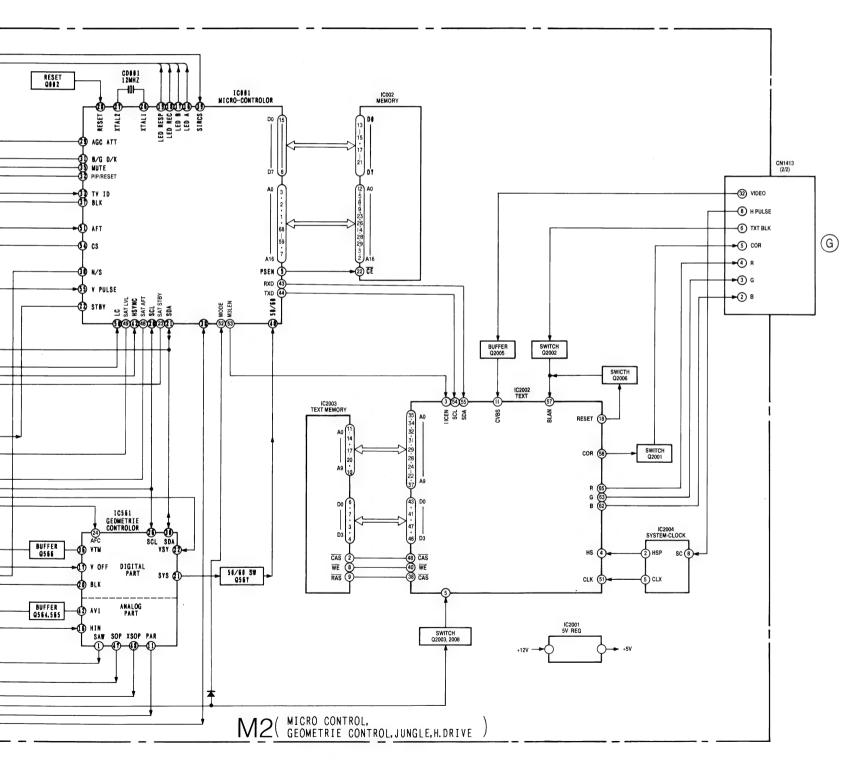
For all IC's used in the AE 2-B chassis which are necessary to obtain picture and sound there is an inbuilt I²C Bus diagnostic system.

In the case of no acknowledge bit, LED A and LED B start blinking as shown.

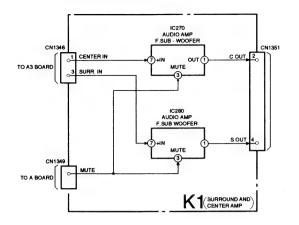


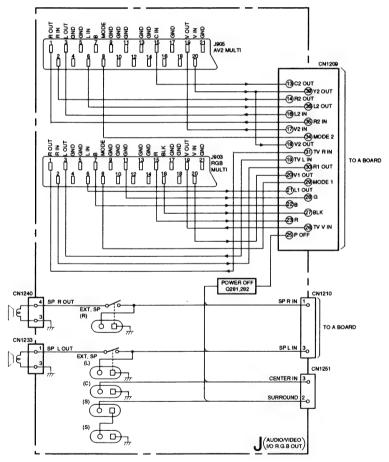


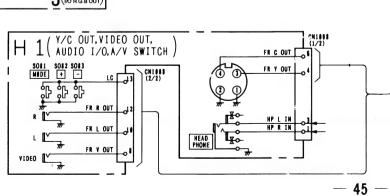


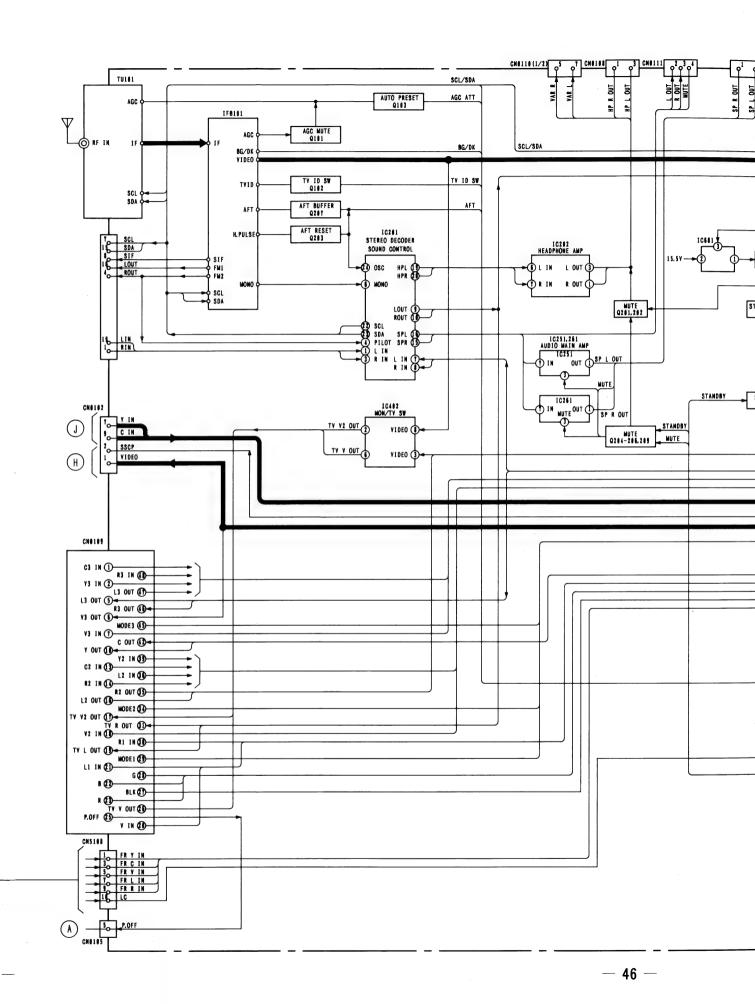


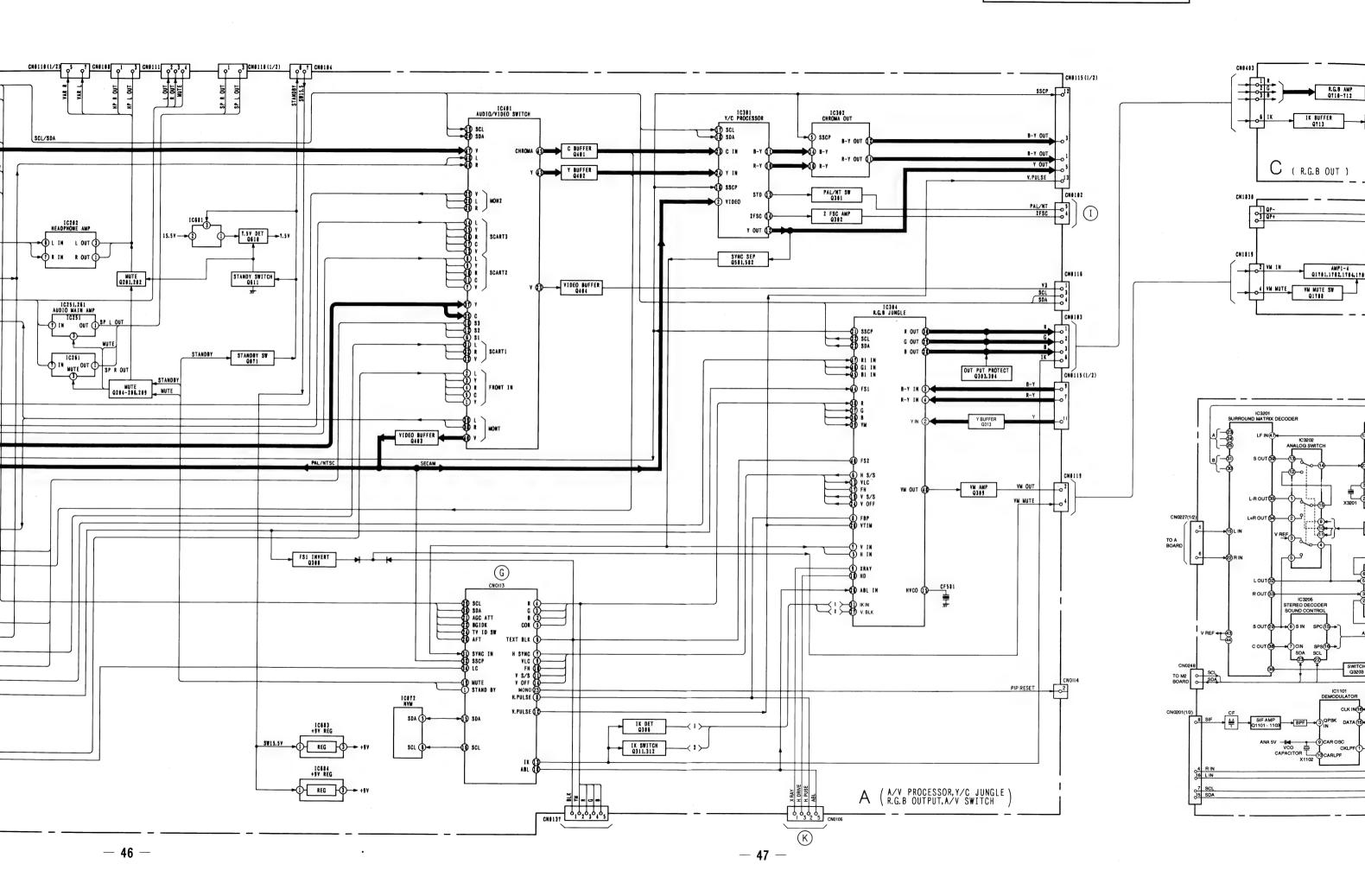
BLOCK DIAGRAM (2)

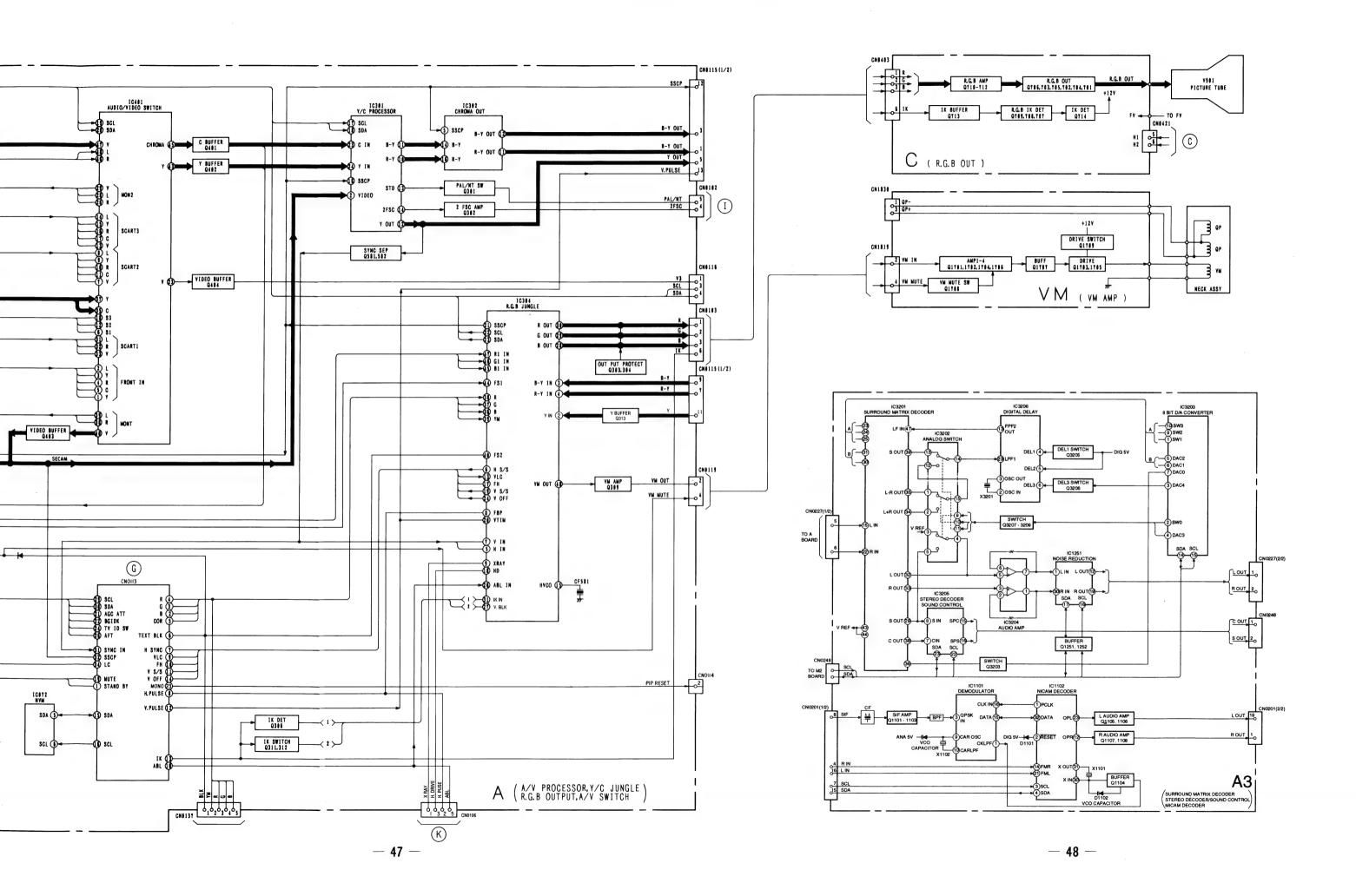




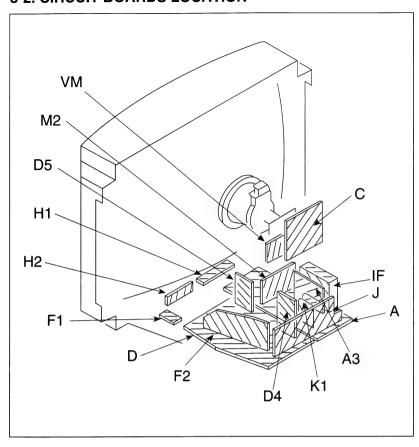








5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

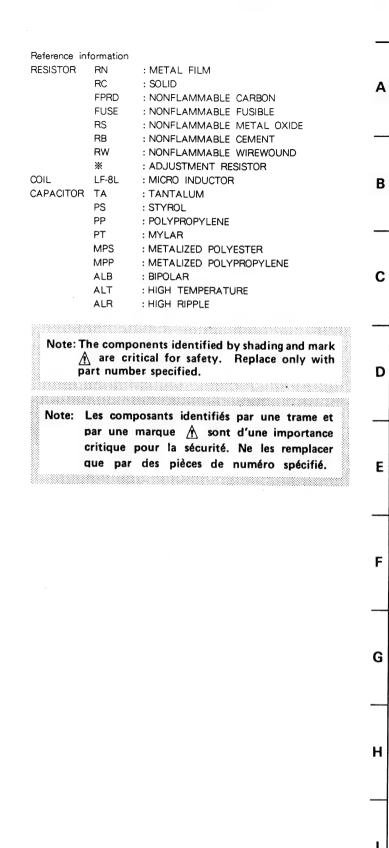
Note :

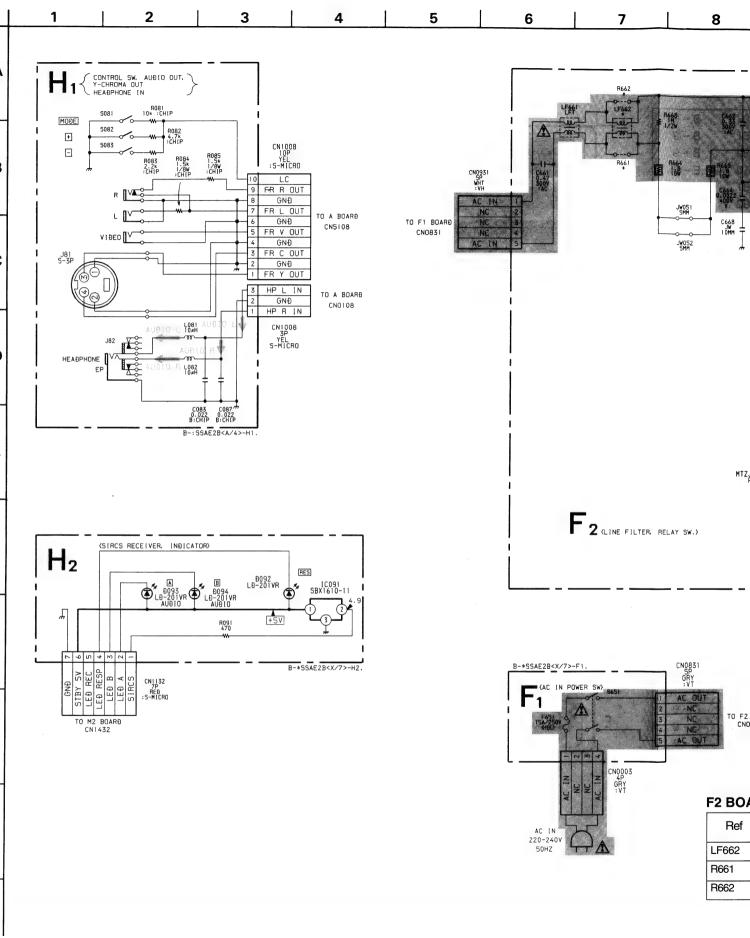
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm

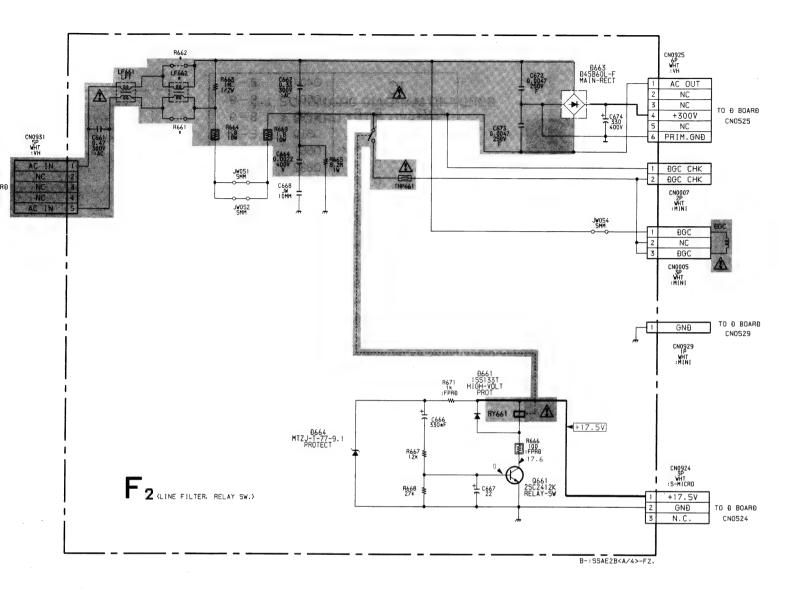
Rating electrical power: 1/4W

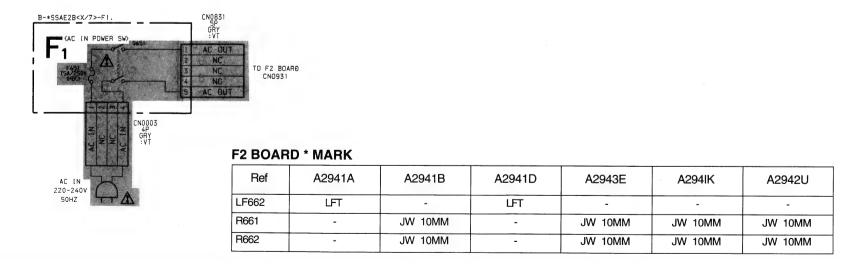
- Chip resistor is in 1/10W.
- All resistors are in ohms. $k \Omega = 1000 \Omega$, $M \Omega = 1000 K \Omega$
- Two : nonflammable resistor.
- tusible resistor.
- Δ : internal component.
- _____: panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a $10M\,\Omega$ digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- = : B bus.
- signal path.(RF)
- · ___ : earth ground
- · : earth chassis



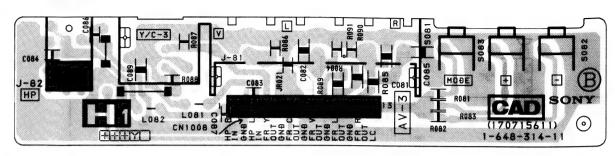




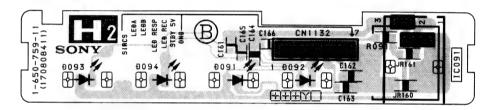




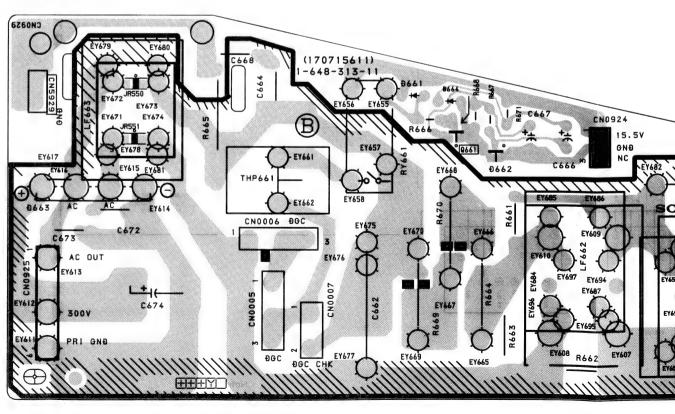
- H1 BOARD -

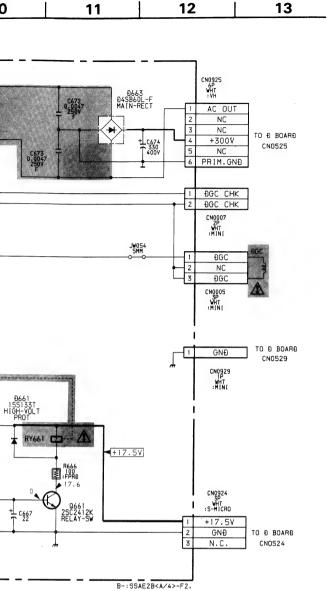


- **H2 BOARD** -



- F2 BOARD -

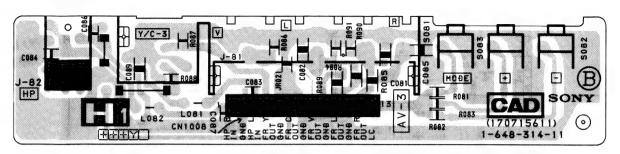




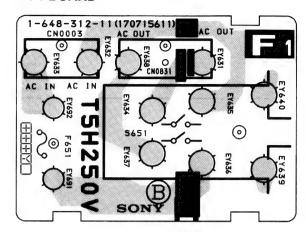
IB	A2941D	A2943E	A294IK	A2942U
	LFT	-	-	-
MM	-	JW 10MM	JW 10MM	JW 10MM
MM	-	JW 10MM	JW 10MM	JW 10MM



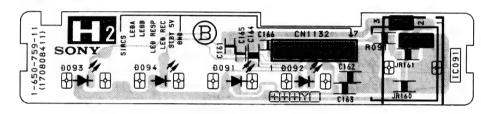
- H1 BOARD -



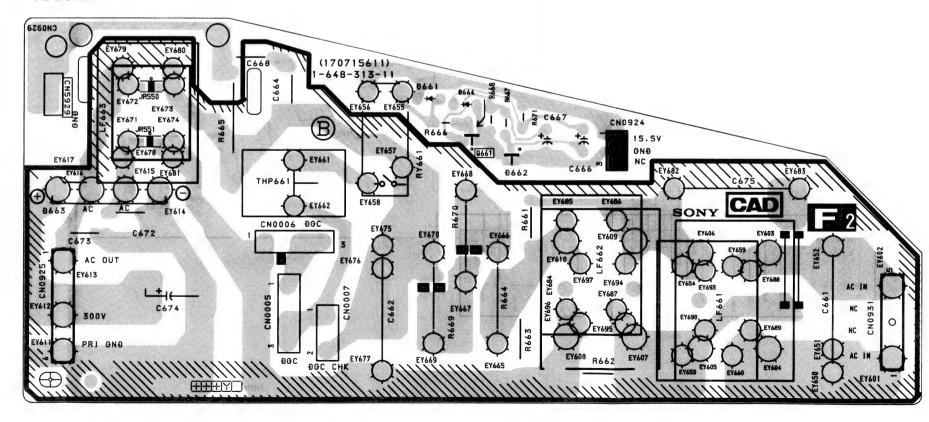
- F1 BOARD -

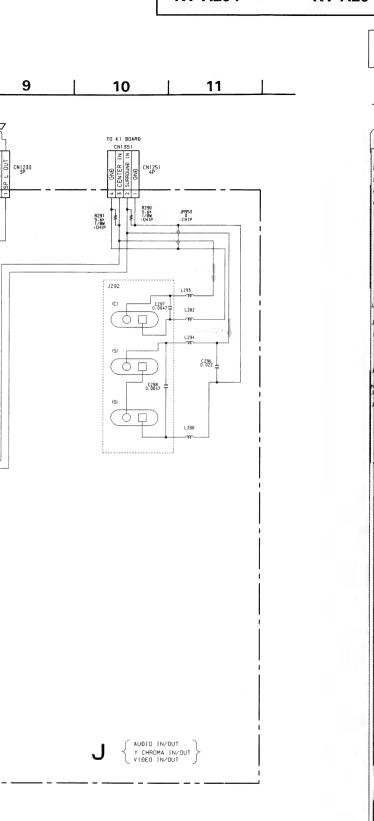


- H2 BOARD -



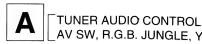
- F2 BOARD -



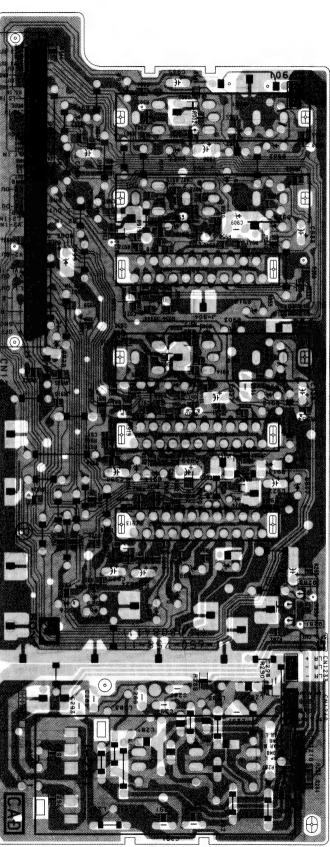


- Pattern from the side which enables seeing.
- Pattern of the rear side.









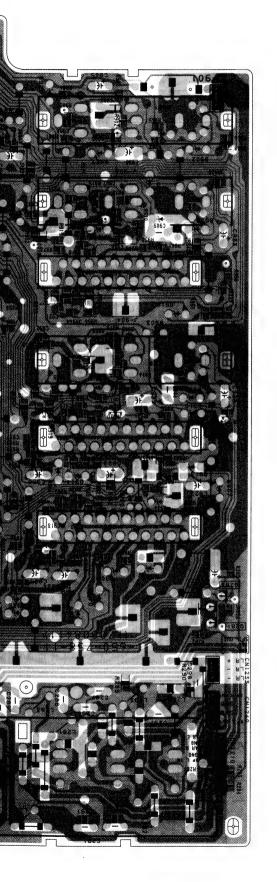
6

7 |

8

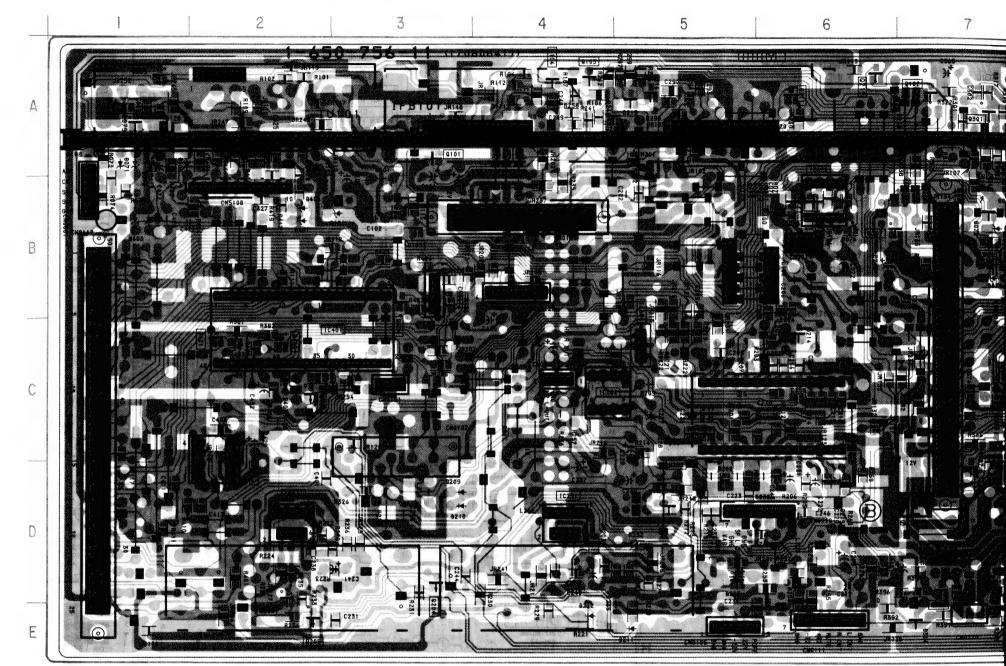
O IN/OUT HROMA IN/OUT O IN/OUT

TUNER AUDIO CONTROL, AUDIO AMP AV SW, R.G.B. JUNGLE, Y/C PROCESSOR

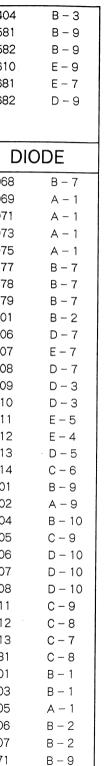


IC C	1404 B – 3
10070	2581 B – 9
10001 0 0	2582 B – 9
10000	2610 E-9
10051 5 4	2681 E - 7
IC261 D-2	1682 D – 9
IC301 A - 8	
IC302 A - 10	DIODE
IC304 C - 10	DIODE
l I	0068 B – 7
; <u> </u>	0069 A - 1
	0071 A - 1
1	0073 A - 1
	0075 A - 1
	0077 B – 7
IRANSISIARI	0078 B - 7 0079 B - 7
	0101 B-2
1	206 D-7
	207 E - 7
	208 D - 7
Q201 D-5 D	209 D-3
Q202 D-5 D	210 D-3
Q203 A-4 D	211 E-5
	212 E-4
	213 D-5
	214 C-6
	301 B – 9 302 A – 9
	302 A - 9 304 B - 10
	305 C - 9
	306 D – 10
· ·	307 D - 10
Q304 D - 10 D	308 D – 10
l l	311 C-9
	312 C-8
	313 C-7
	381 C – 8
	401 B – 1
	403 B – 1
i	405 A - 1 406 B - 2
	406 B - 2 407 B - 2
	571 B – 9
	681 E – 8
	683 D-9

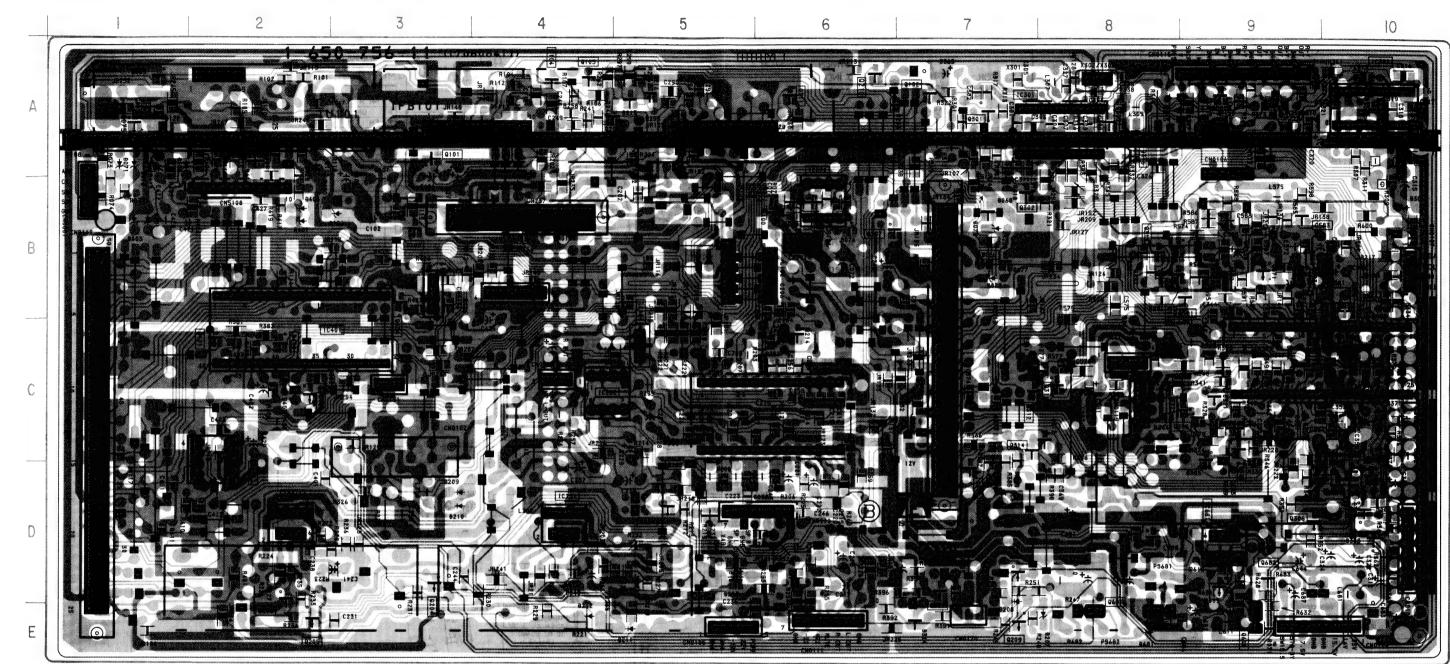
- A BOARD -



- A BOARD -

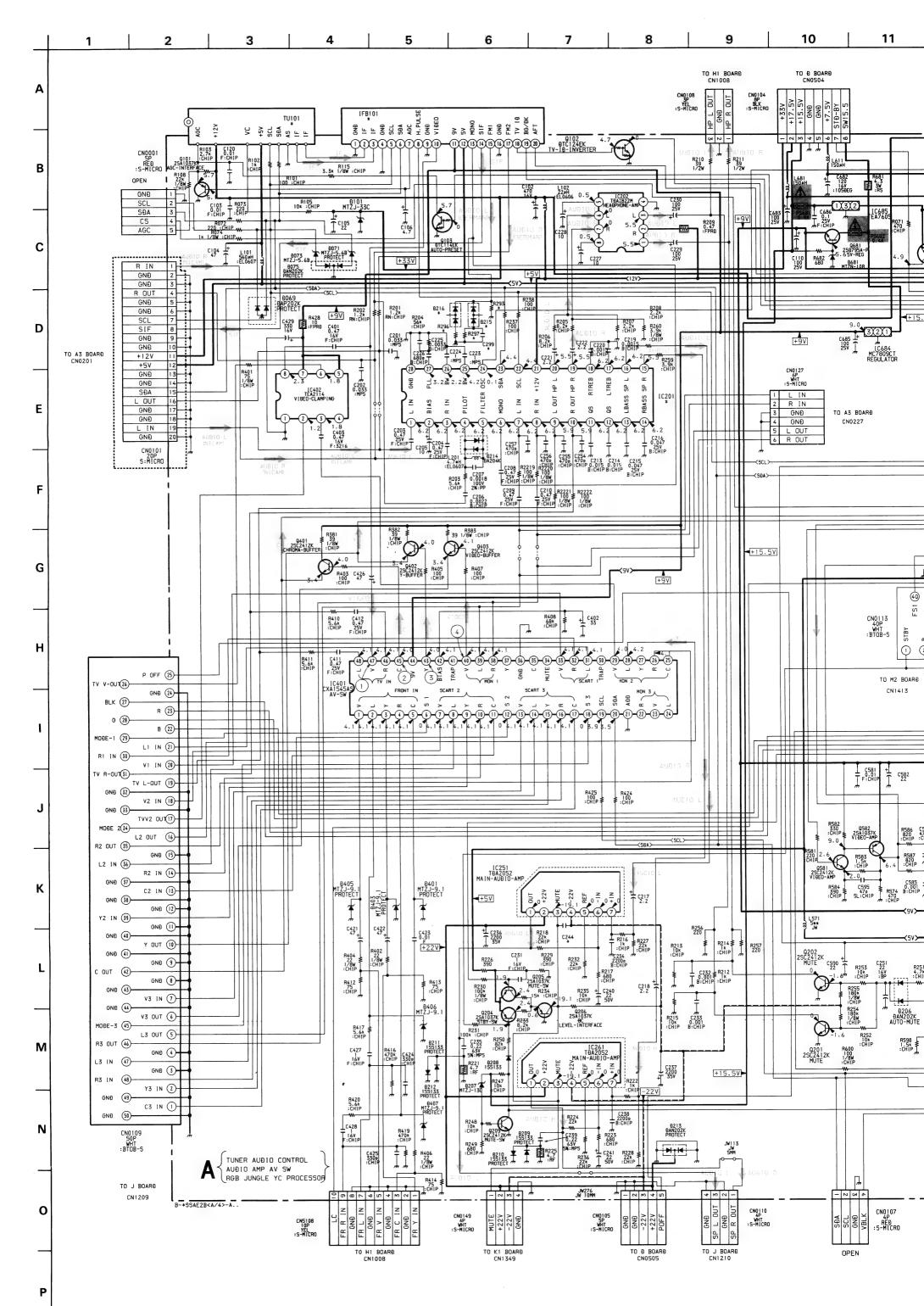


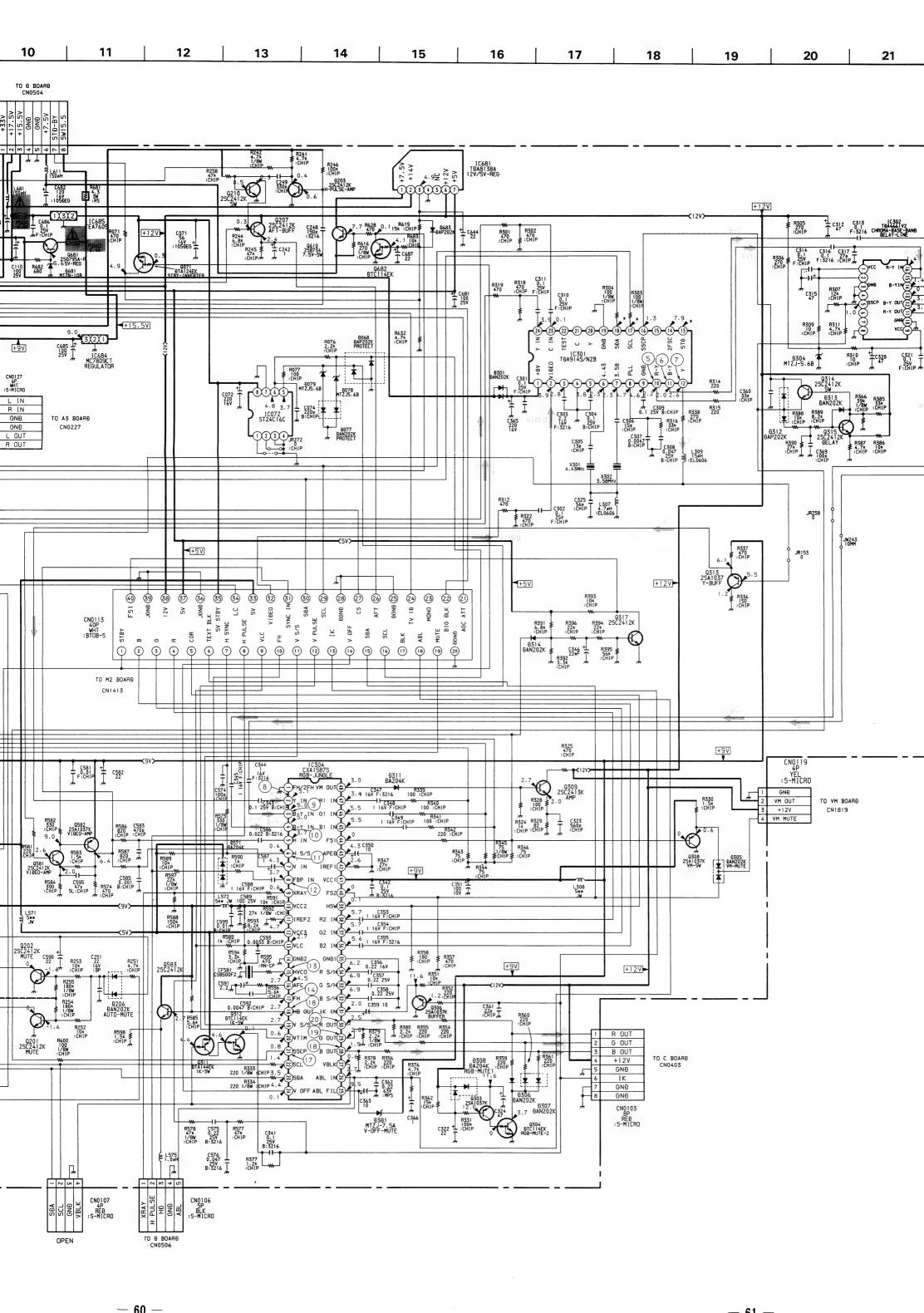
E – 8 D – 9

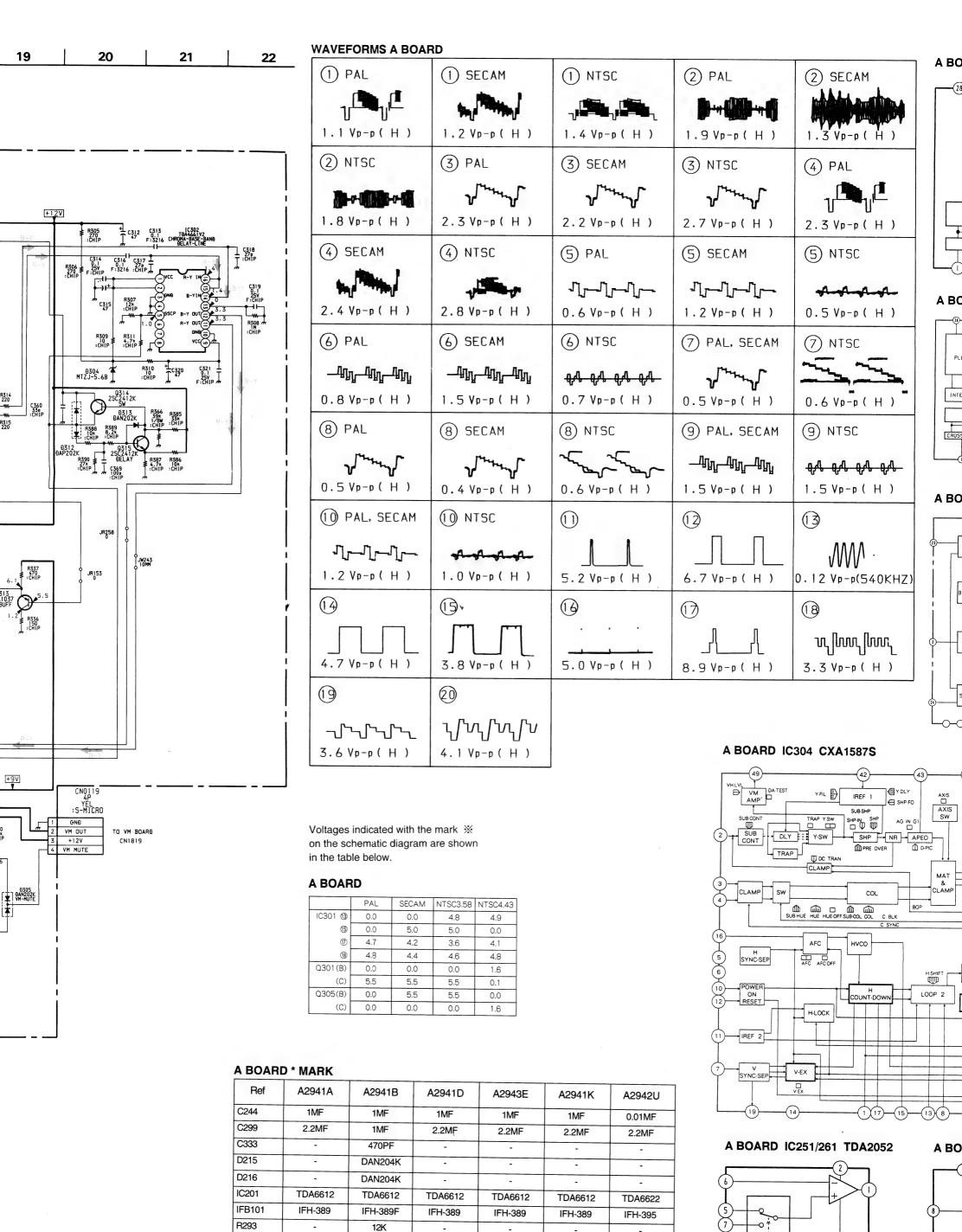


Note:

- Seeing. : Pattern from the side which enables seeing.
- Pattern of the rear side.







R296

R297

R326

TU101

UV916H

330

120

0

UV916H

-

-

-

UV916H

-

UV916H

_

UV916H

-

U944C

MUTE/

ATTESA

RMS A BOARD (1) NTSC (1) SECAM -p(H) 1.2 Vp-p(H) 1.4 Vp-p (H) (3) PAL (3) SECAM SC Mymmy Mymmy -p(H) 2.3 Vp-p (H)2.2 Vp-p (H) (5) PAL CAM (4) NTSC **┚**┃┡━┛<u>┃</u>┡━ 2.8 Vp-p(H) p(H) 0.6 Vp-p (H)(6) SECAM (6) NTSC -ՄՄ-ՄՄ **─₩₩₩₩₩** 149 149 149 149 1.5 Vp-p(H) 0.7 Vp-p (H)э-р(Н) (8) NTSC (8) SECAM o-p (H) 0.6 Vp-p (H)0.4 Vp-p (H)(10) NTSC (1)L, SECAM ╼┚┋┖╼╌┋ -A-A-A-A p-p(H) 1.0 Vp-p (H) 5.2 Vp-p(H) (13) (13) p-p(H) 3.8 Vp-p(H) 5.0 Vp-p (H)

20)

o-р(Н)

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PAL

0.0

0.0

4.7

4.8

5.5

0.0

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ematic diagram are shown

0.0

5.0

4.2

4.4

0.0

5.5 0.0

SECAM NTSC3.58 NTSC4.43

3.6

4.6

4.9

0.0

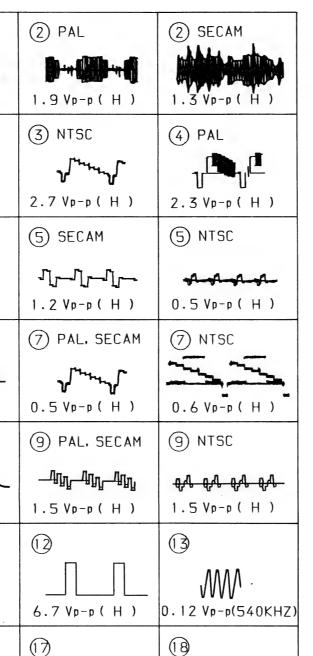
4.1

4.8

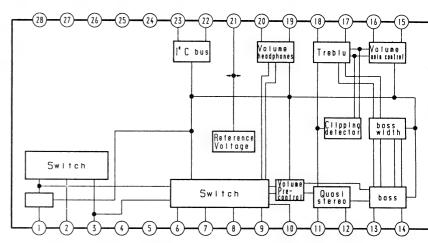
1.6

ᢋᡣᠮᢦᡙᠮᢦᢋᡗᡃᢧ

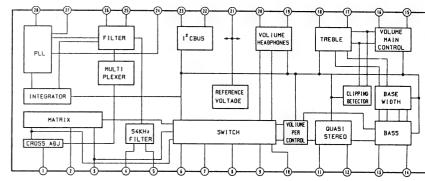
4.1 Vp-p(H)



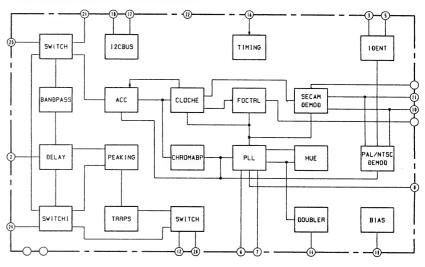
A BOARD IC201 TDA6622 (UK Model only)

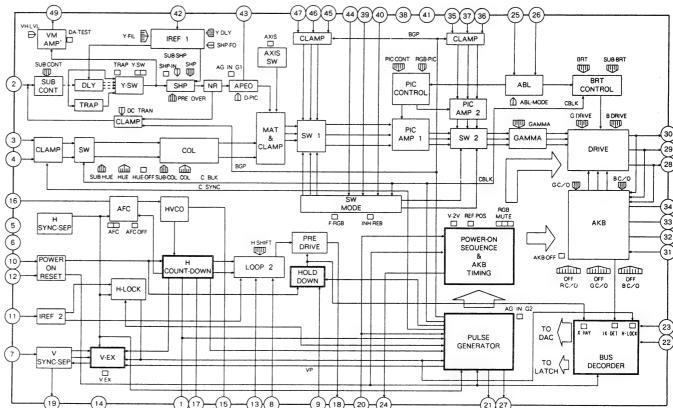


A BOARD IC201 TDA6612



A BOARD IC301 TDA9145/N2B

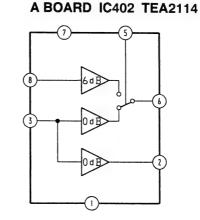


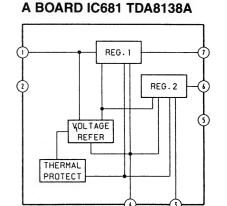


A2941B	A2941D	A2943E	A2941K	A2942U
1MF	1MF	1MF	1MF	0.01MF
1MF	2.2MĘ	2.2MF	2.2MF	2.2MF
470PF	-	-	-	-
DAN204K	-	-	-	-
DAN204K	-	-	-	-
TDA6612	TDA6612	TDA6612	TDA6612	TDA6622
IFH-389F	IFH-389	IFH-389	IFH-389	IFH-395
12K	-	-	-	-
330	-	-	-	-
120	-	-	-	-
0	-	-	-	-
UV916H	UV916H	UV916H	UV916H	U944C

MUTE/ ATTESA

A BOARD IC251/261 TDA2052



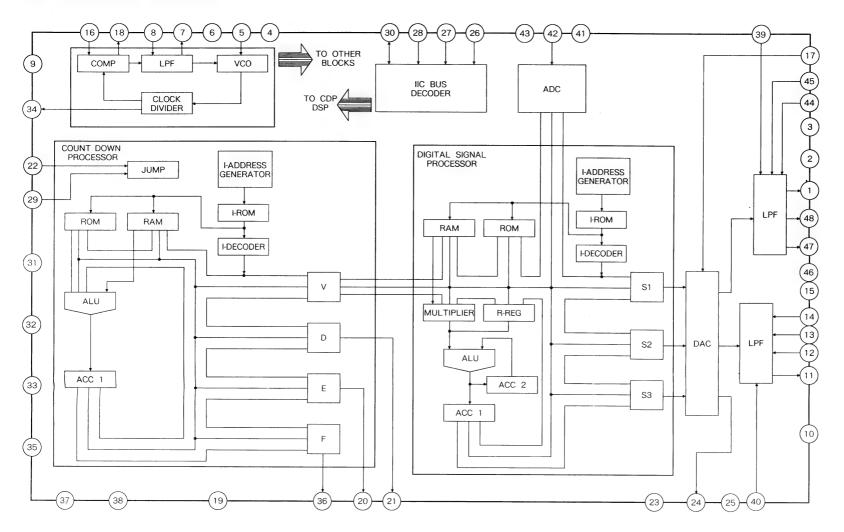


(18)

տ խտ խտ 3.3 Vp-p (H)8.9 Vp-p(H)

A BOARD IC304 CXA1587S

M2 BOARD IC561 CXD2018Q



1 | 20 (19) (18) 17 (16) (15) 14 13 TO A BOARD CN0113 1 10 9 8 7 6 (5) 4 3 2

Α

В

С

D

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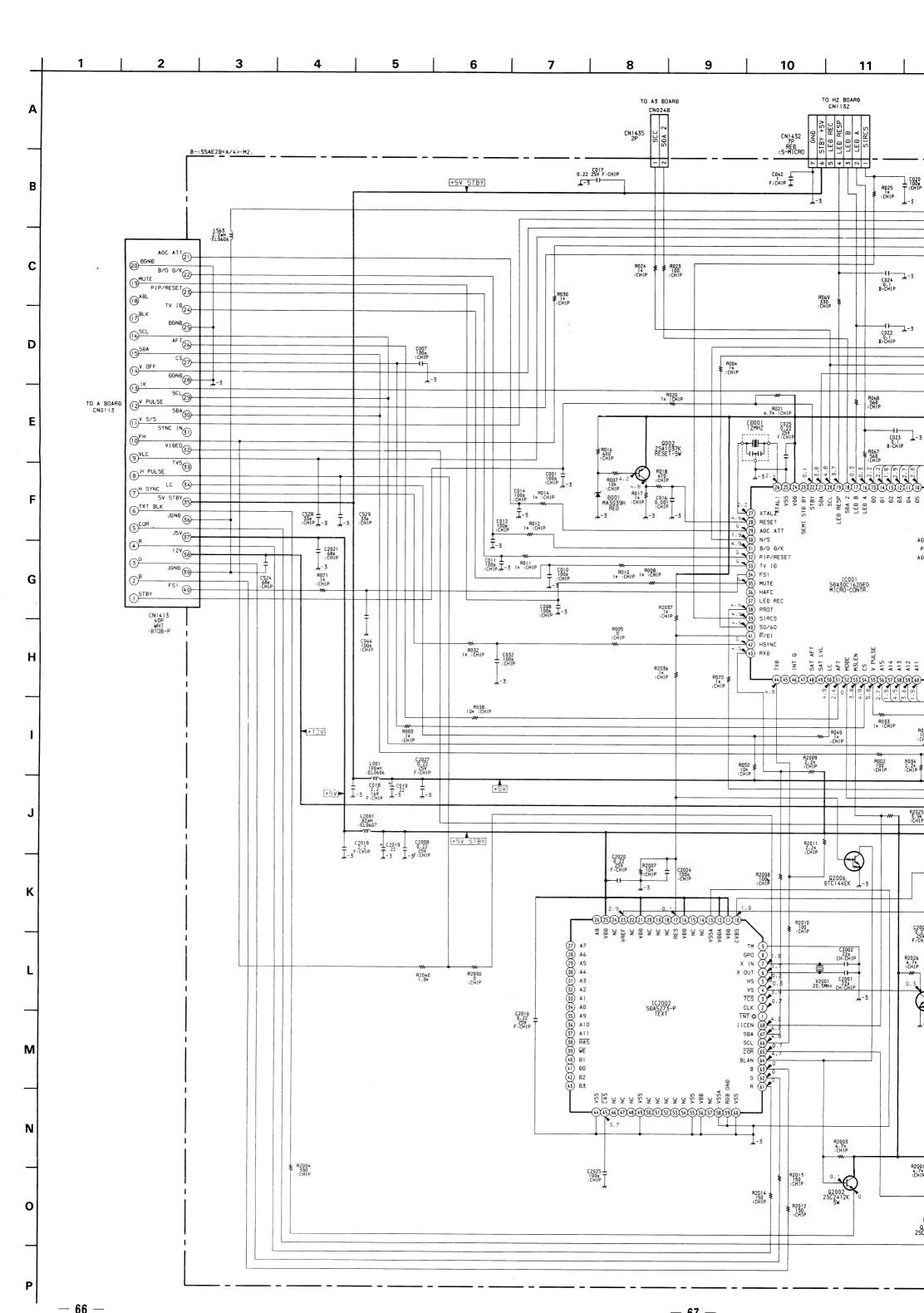
J

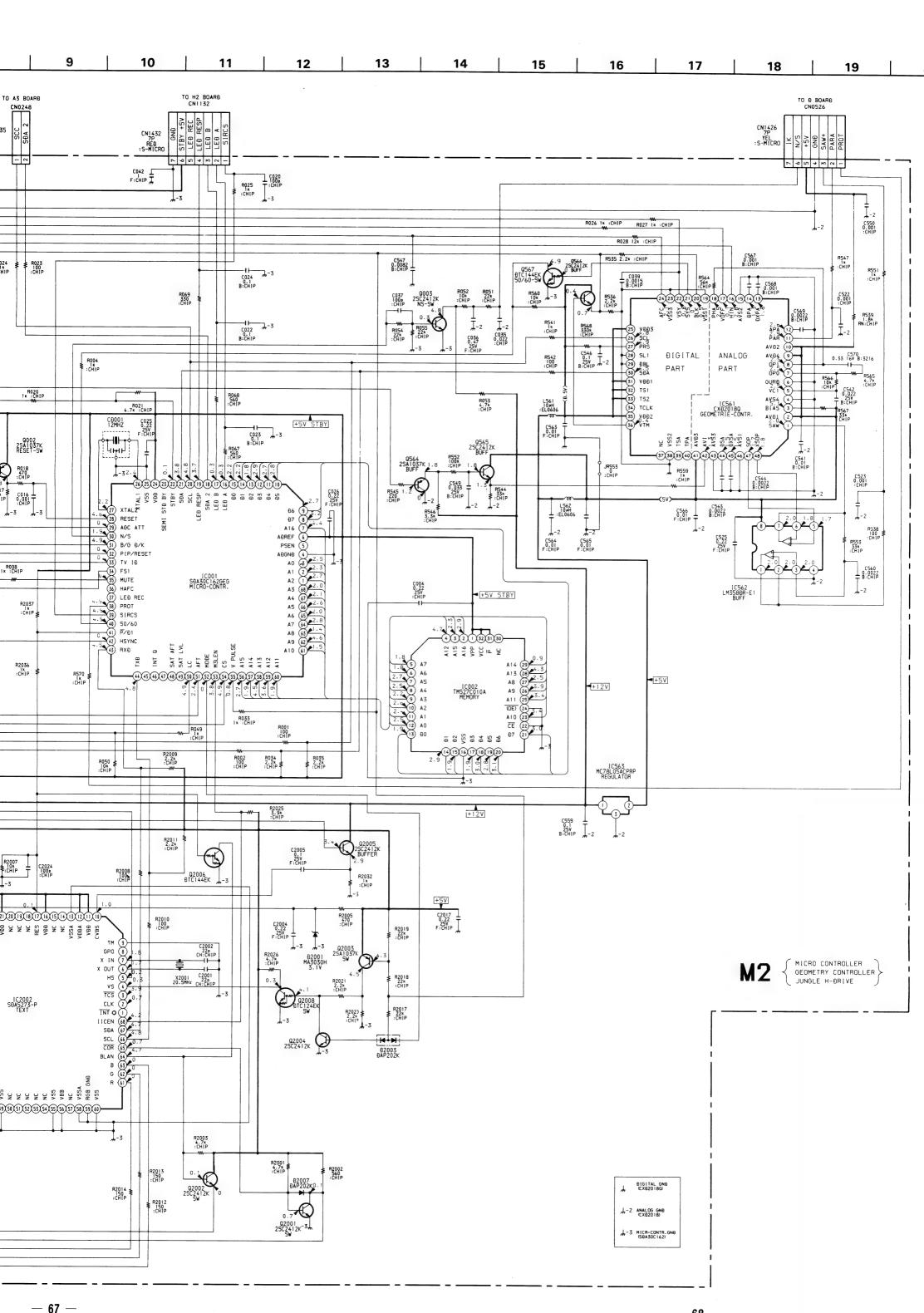
K

L

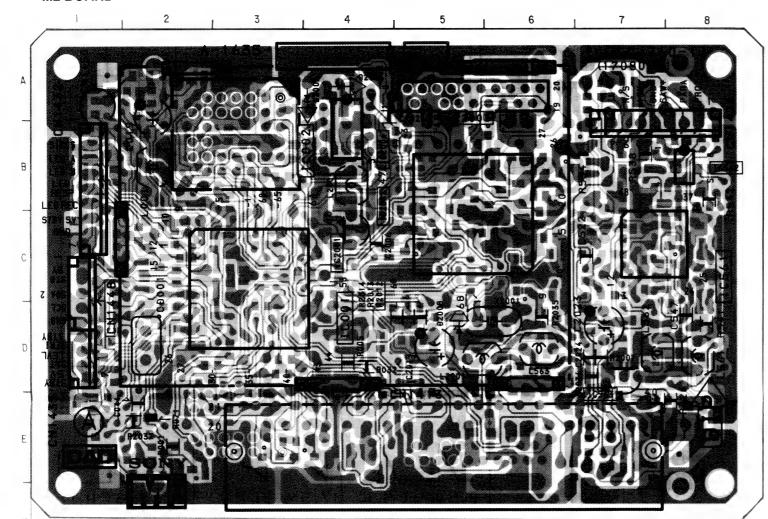
М

P

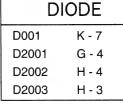




- M2 BOARD -



IC			
IC001	C - 4		
IC002	B - 3, H - 7		
IC561	C - 8		
IC562	B - 8		
IC563	D - 7, J - 3		
IC2001	C - 4, I - 5		
IC2002	C- 5		
IC2003	B - 5, G - 3		
IC2004	B - 4, H - 5		
TRAN	ISISTOR		
TRAN	ISISTOR K-7		
Q002	K - 7		
Q002 Q003	K - 7		
Q002 Q003 Q564	K - 7 I - 6 I - 2		
Q002 Q003 Q564 Q565	K - 7 I - 6 I - 2 I - 1		
Q002 Q003 Q564 Q565 Q566	K - 7 I - 6 I - 2 I - 1 G - 2		
Q002 Q003 Q564 Q565 Q566 Q567	K - 7 I - 6 I - 2 I - 1 G - 2 H - 1		



J - 3

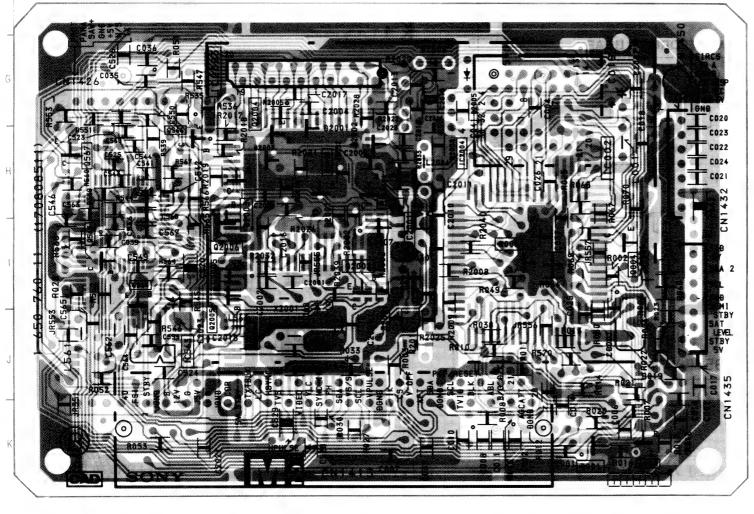
1-3

H - 4

Q2005

Q2006

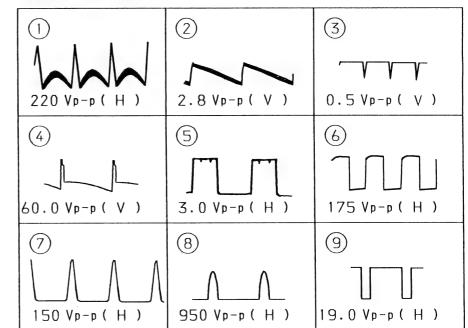
Q2008



Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

WAVEFORMS D BOARD



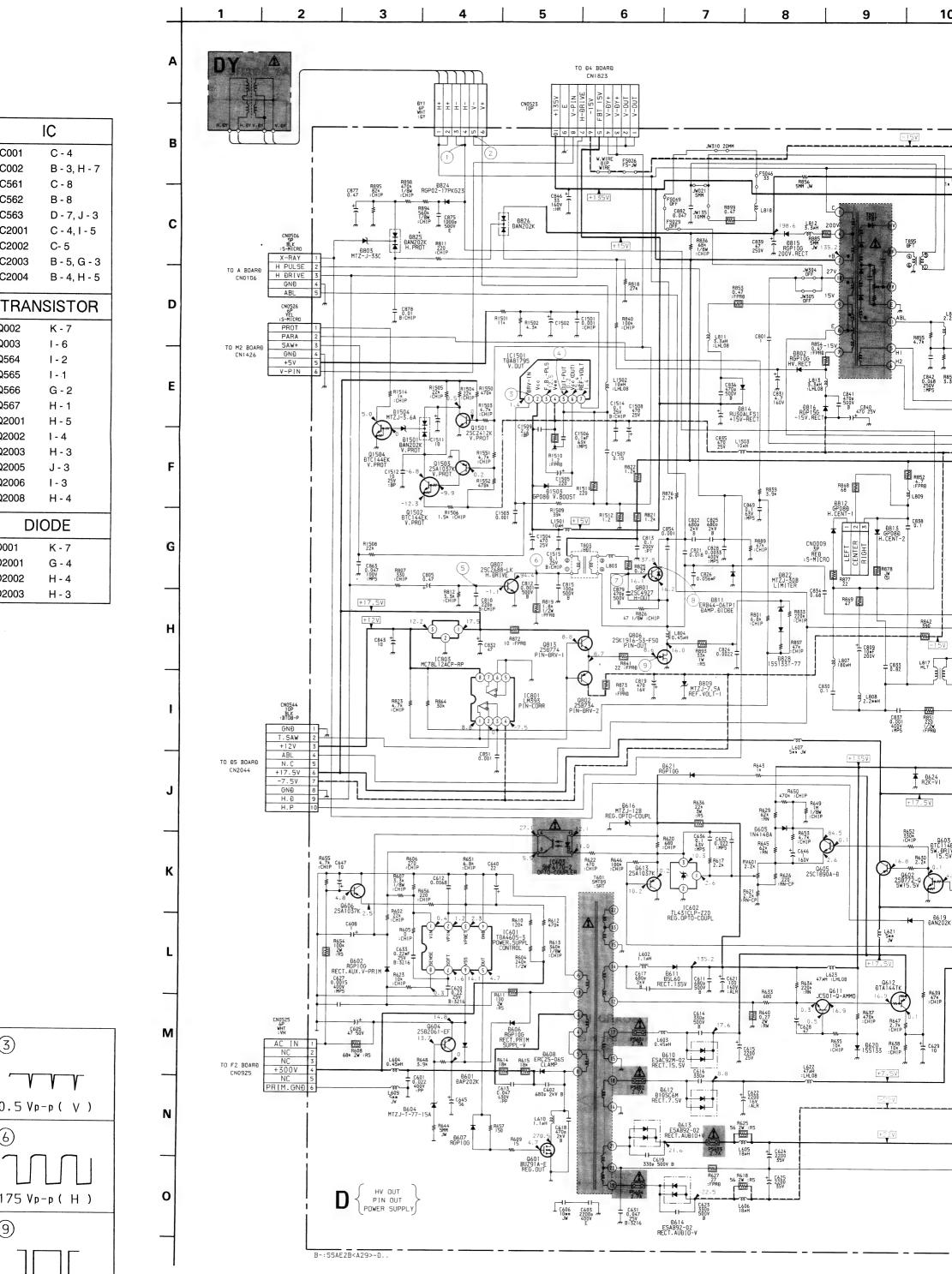
G

Н

M

Ν

0



175 Vp-p (H) 9.0 Vp-p(H)

C2003

TRANSISTOR

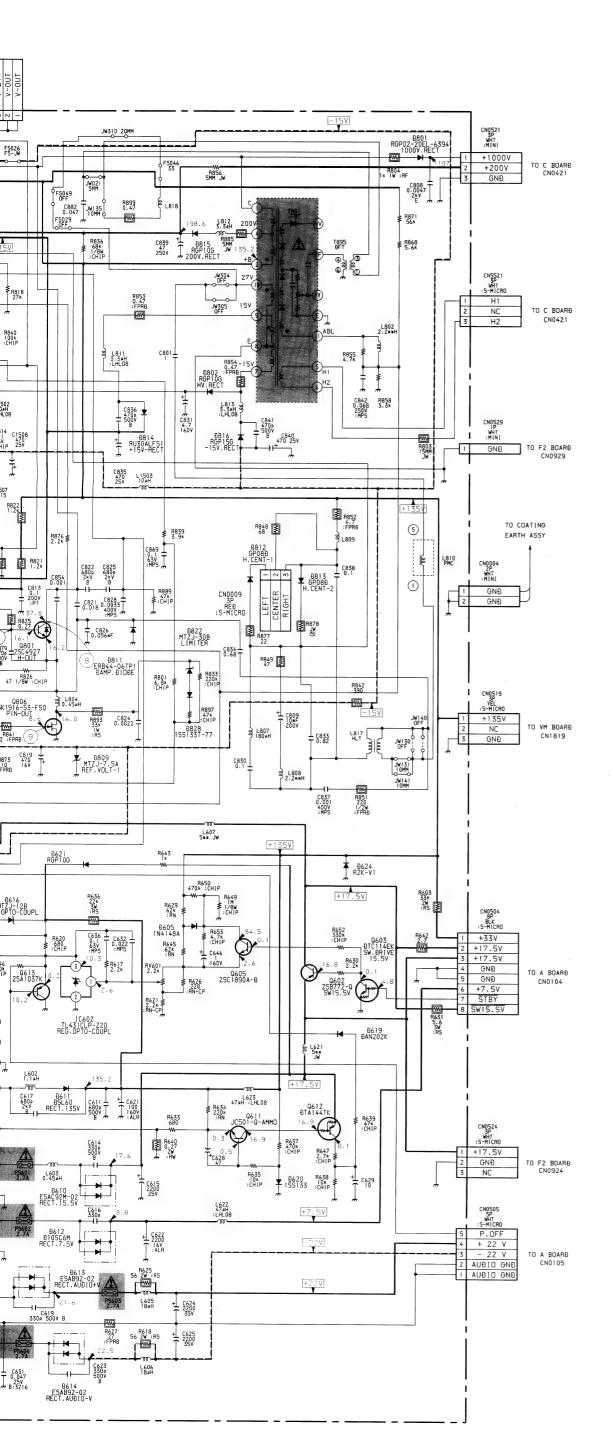
2001 2002

2003

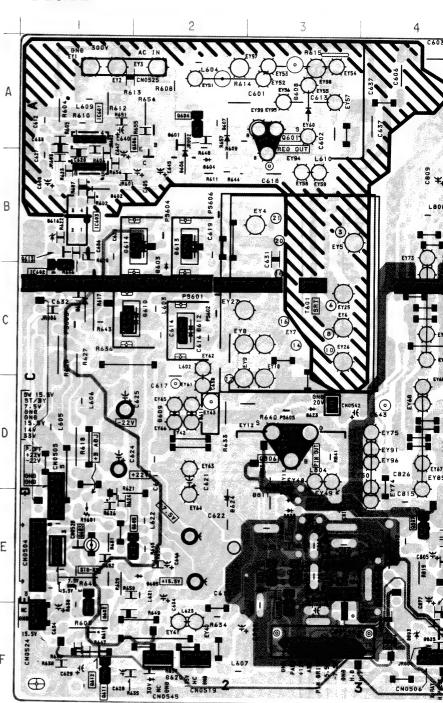
C2004

6

6 10 9 11 12



- D BOARD -

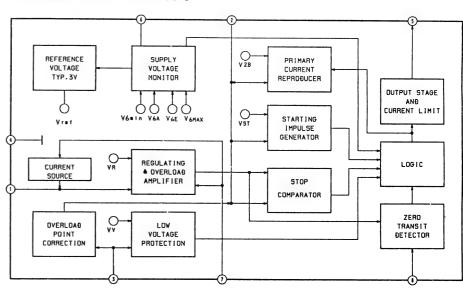




NOTE:

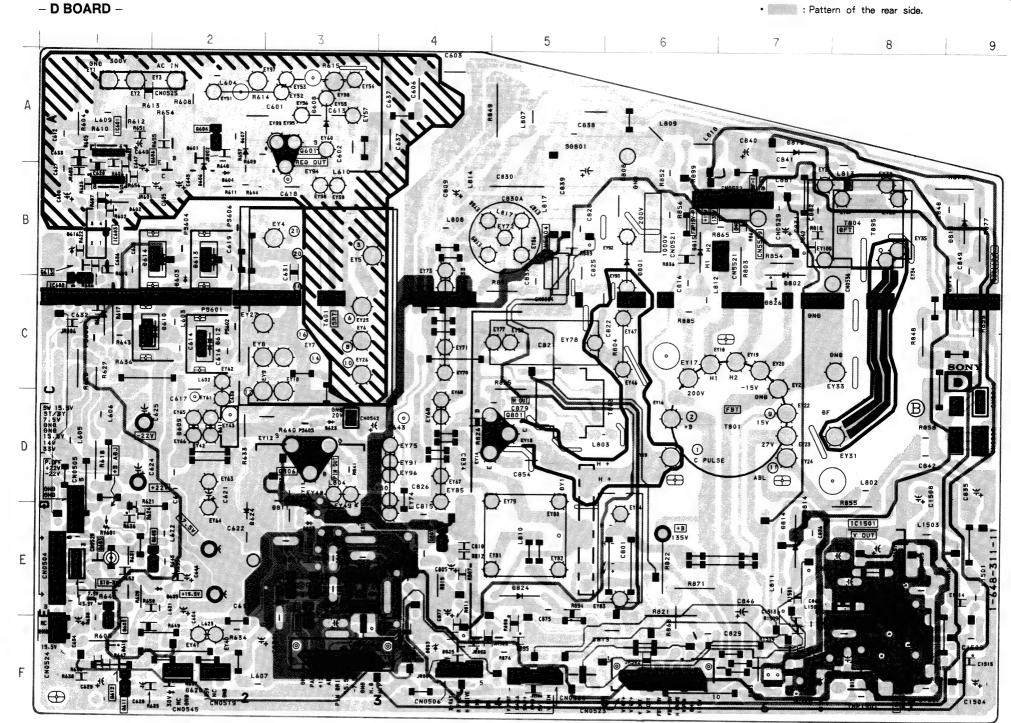
The circuit indicated as left contains high voltage of o 600 Vp-p. Care must be paid to prevent an electric shock inspection or repairing.

D BOARD IC601 TDA4605-3



Note:

- : Pattern from the side which enables seeing.
- Pattern of the rear side.

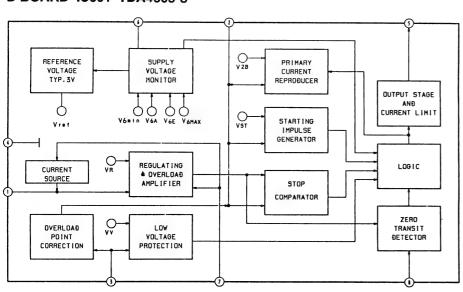




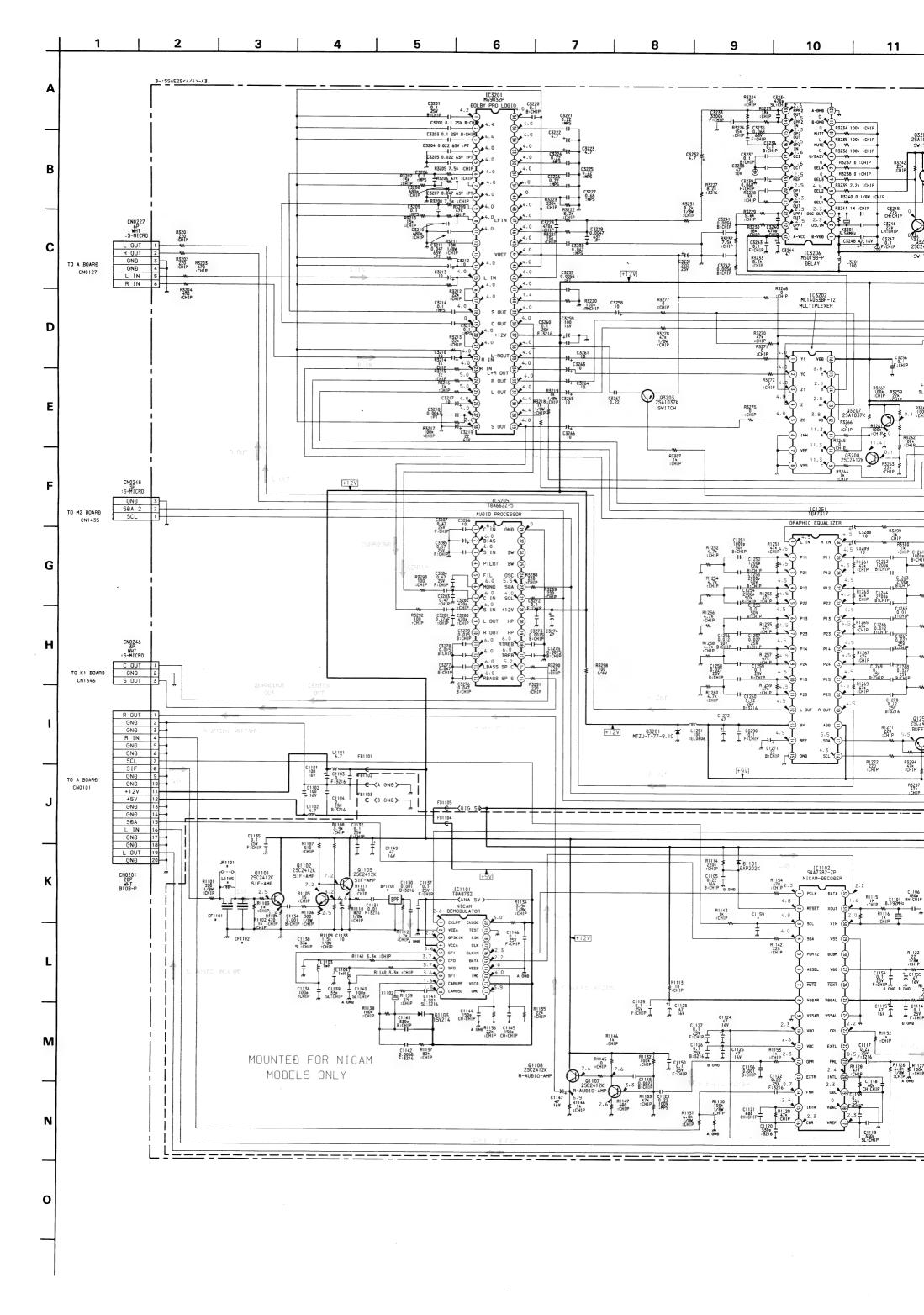
NOTE:

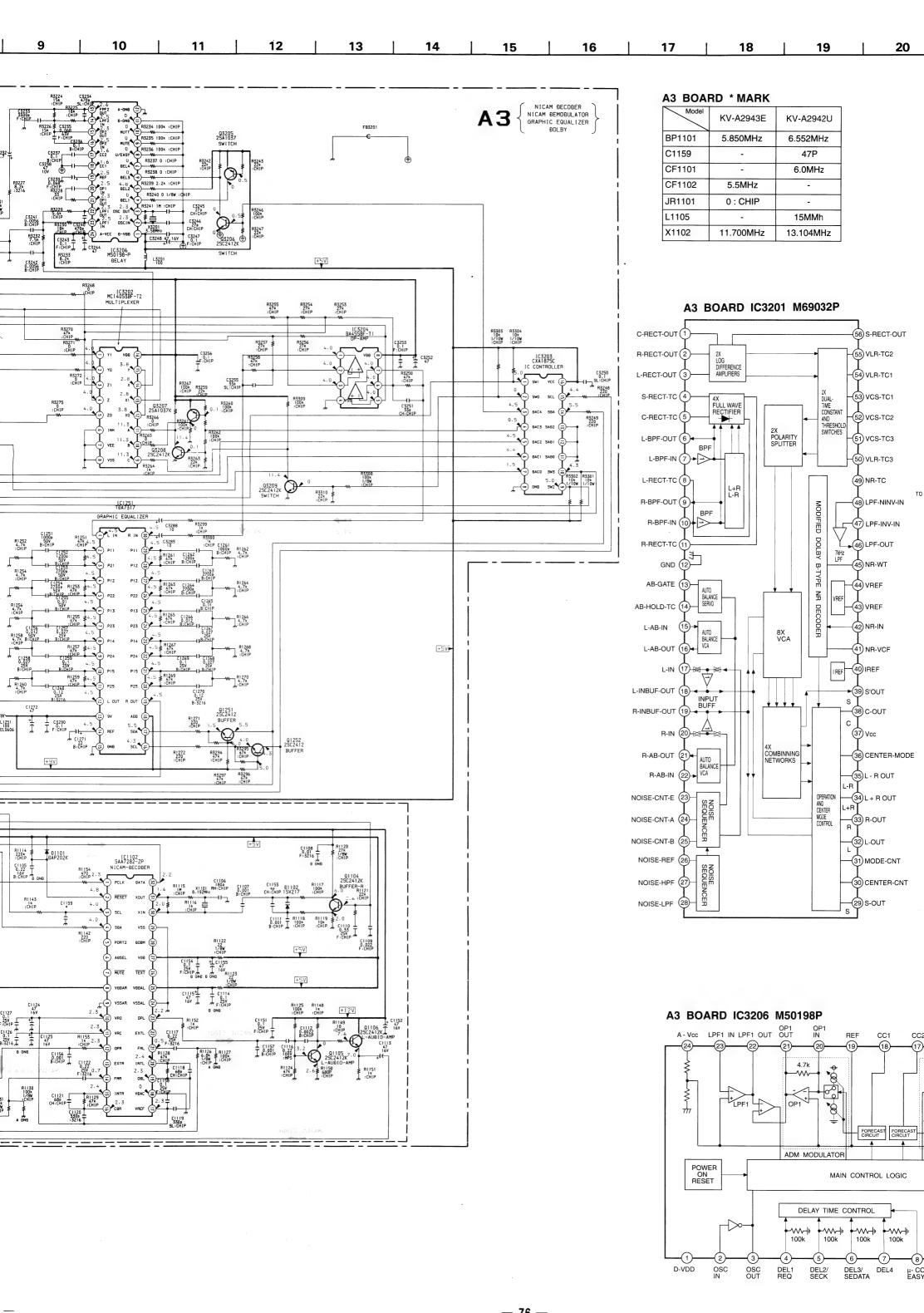
The circuit indicated as left contains high voltage of over $600\ \text{Vp-p.}$ Care must be paid to prevent an electric shock in inspection or repairing.

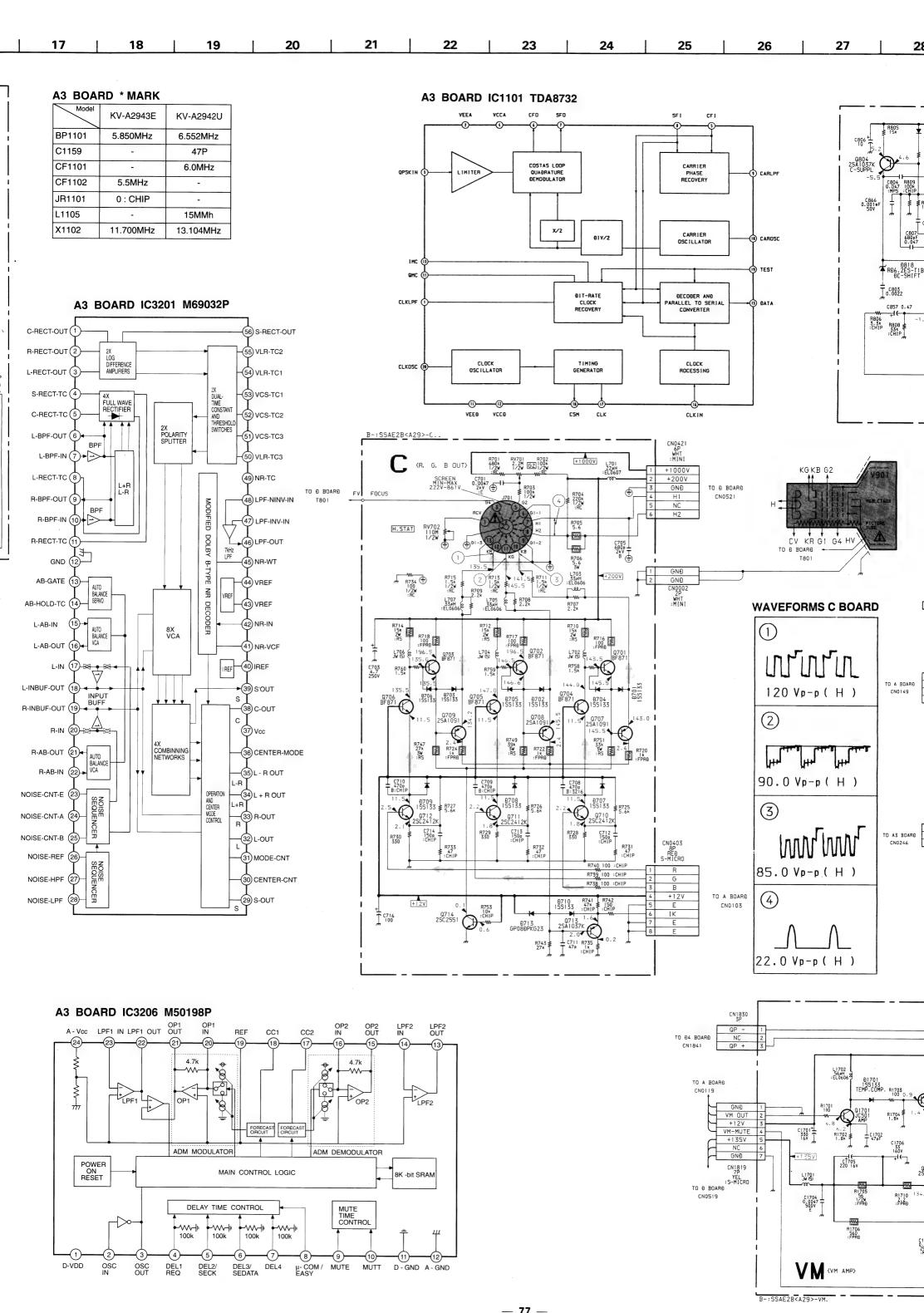
D BOARD IC601 TDA4605-3

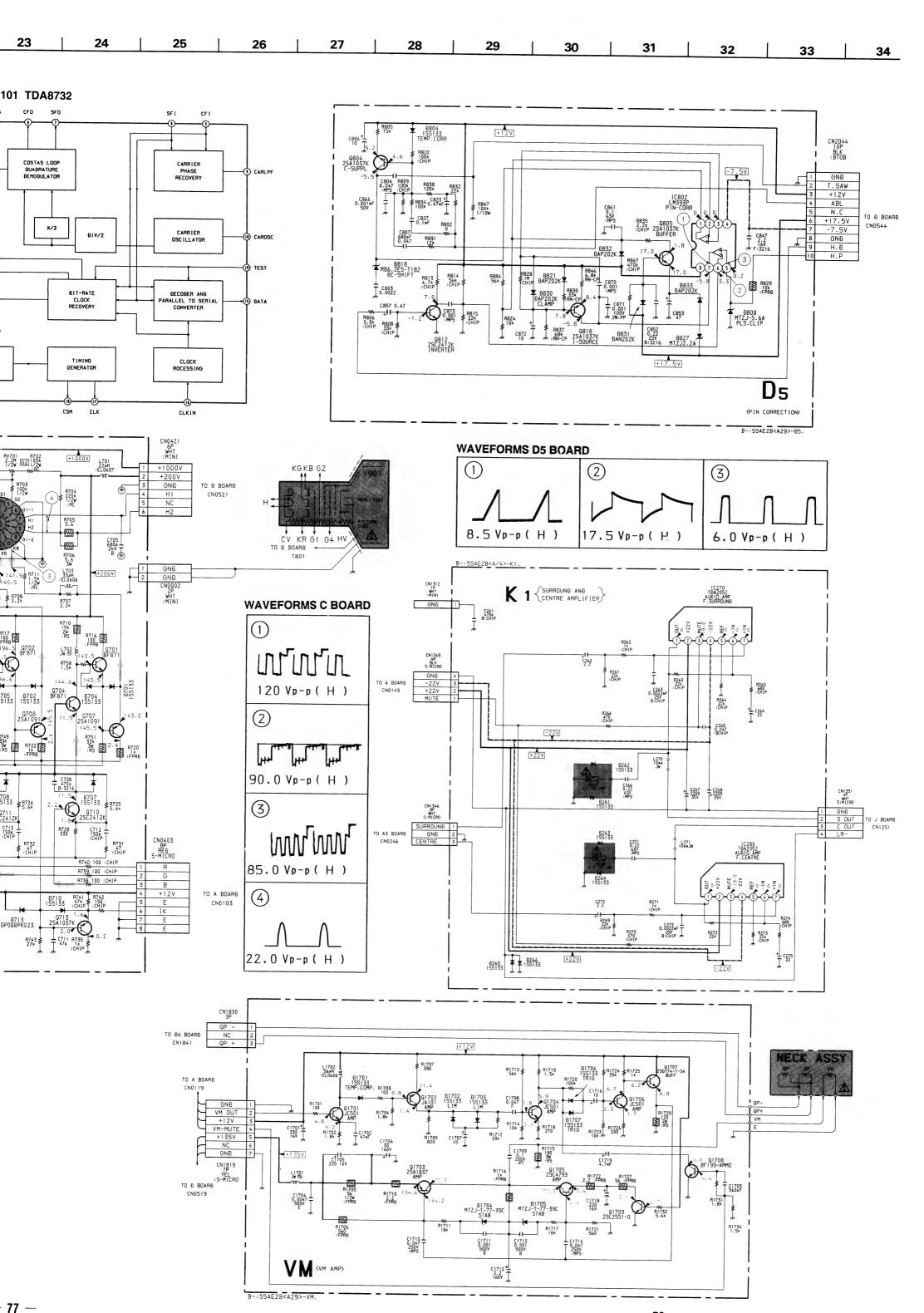


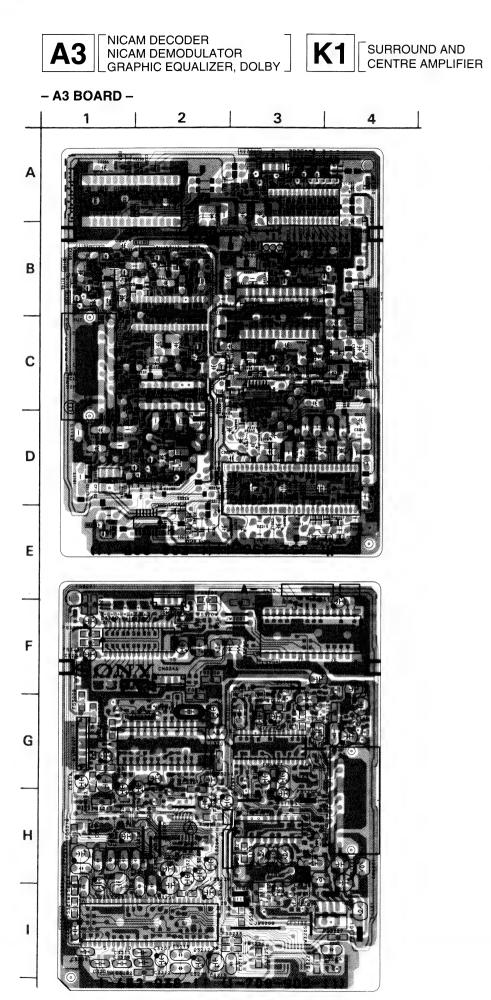
IC601 IC602 IC603 IC801 IC803 IC1501	A-1 C-1 B-1 E-3 F-3 E-8 SISTOR A-3 F-1 E-1 A-2 E-2 B-2 F-1 F-1 B-1 D-5 E-3 D-3 E-4 E-3	D607 D608 D610 D611 D612 D613 D614 D616 D619 D620 D621 D624 D801 D802 D803 D809 D811 D812 D813 D814 D815 D816 D822 D824	A - 2 A - 3 C - 2 B - 2 B - 1 F - 2 B - 7 E - 8 B - 7 F - 3 C - 9 B - 7
Q605 Q606 Q611 Q612 Q613 Q801 Q802 Q806 Q807 Q813 Q1501 Q1502 Q1503 Q1504	A - 2 E - 2 B - 2 F - 1 F - 1 B - 1 D - 5 E - 3 D - 3	D803 D809 D811 D812 D813 D814 D815 D816 D822	F-4 E-3 D-3 C-9 B-9 E-7 B-6 A-7
D601 D602	A – 2 B – 1		ABLE STOR
D604 D605 D606	B – 2 E – 2 B – 2	RV601	E – 1

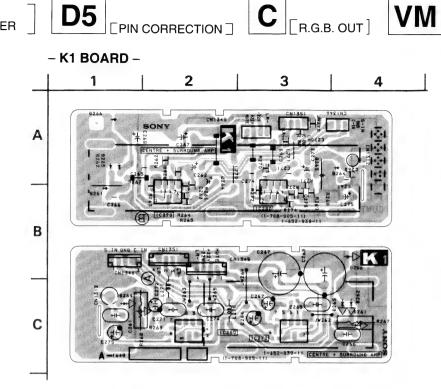




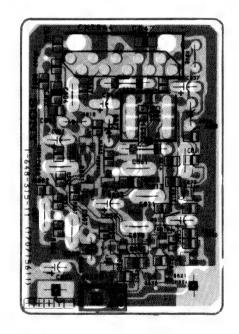








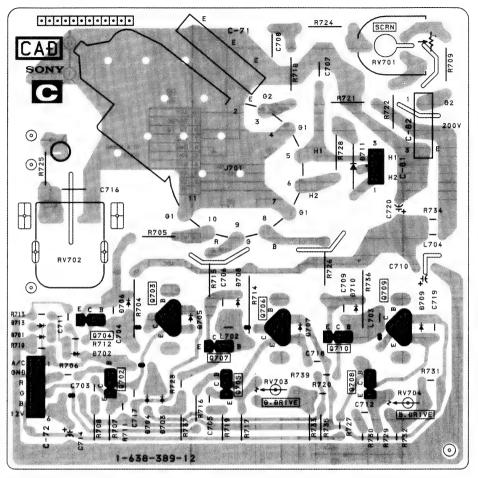
- D5 BOARD -



Note:

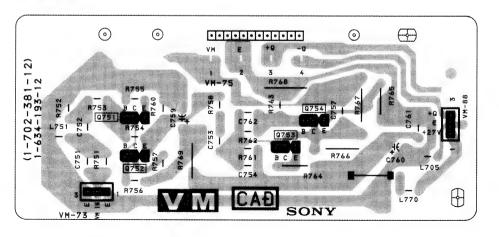
- Pattern from the side which enables seeing.
- : Pattern of the rear side.

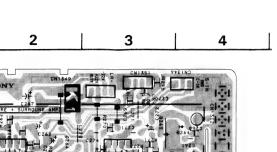
- C BOARD -

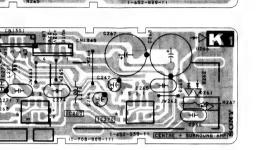


RV1853 2.2* R1862 1.8* :CHIP

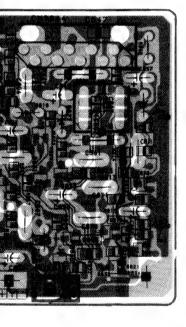








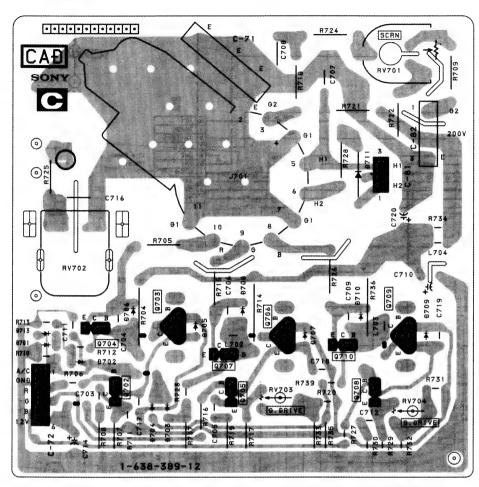
BOARD -



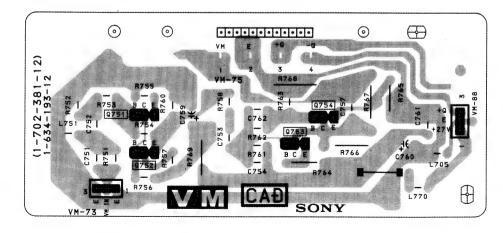
- : Pattern from the side which enables seein
- : Pattern of the rear sid

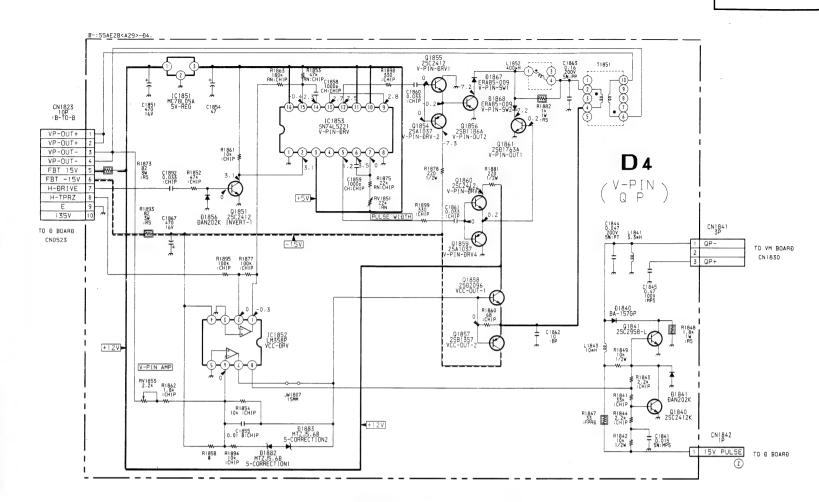


- C BOARD -

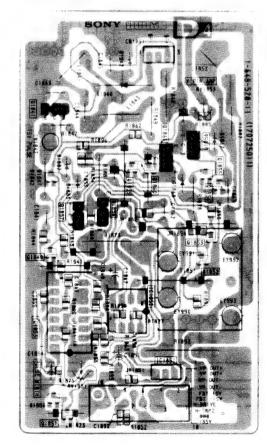


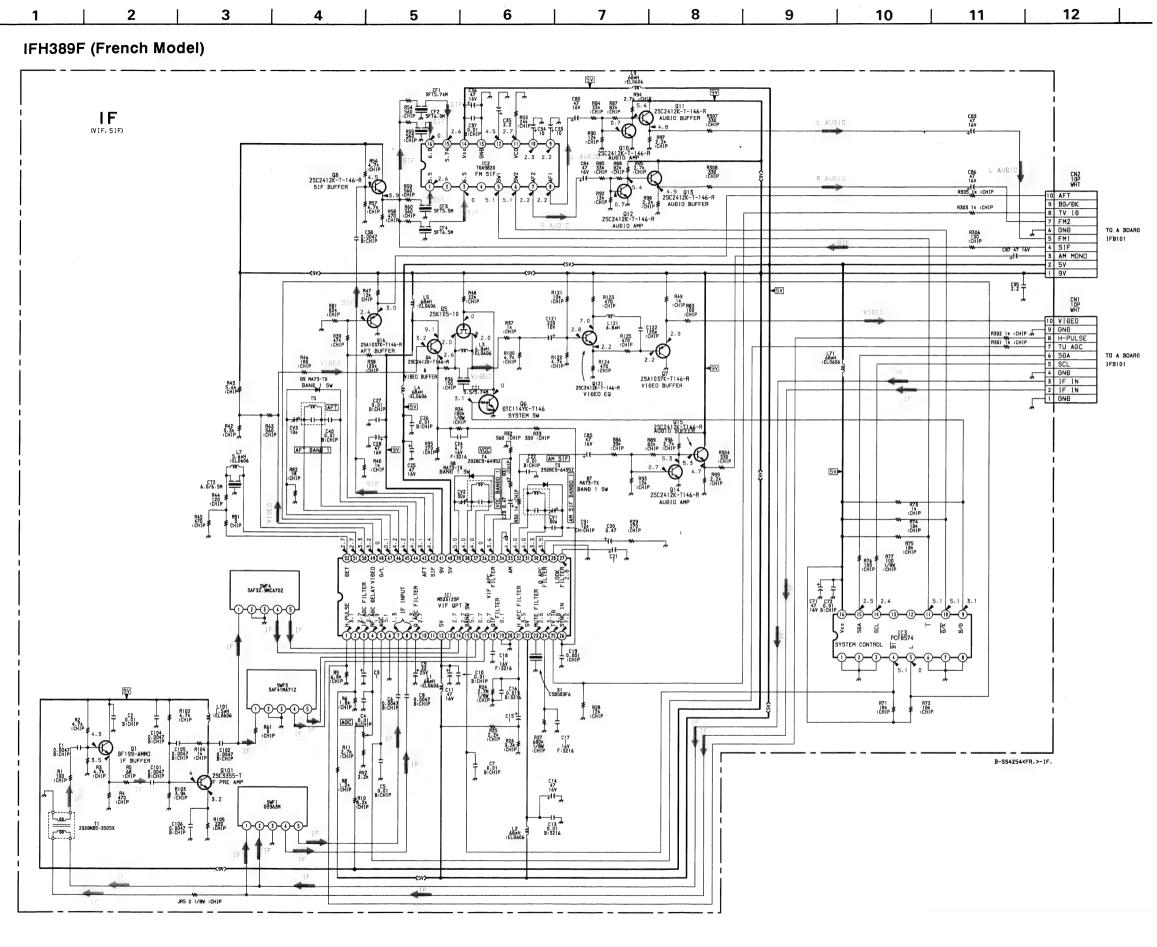
- VM BOARD -



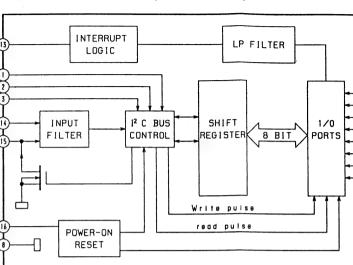


- D4 BOARD -

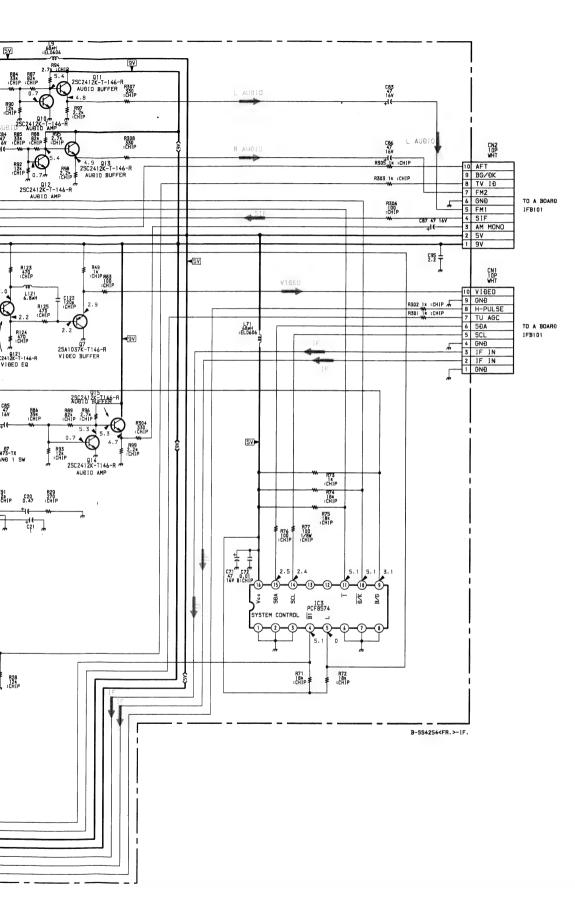




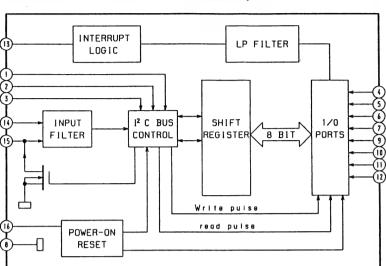
IF BOARD IC3 PC8574 (French Model)





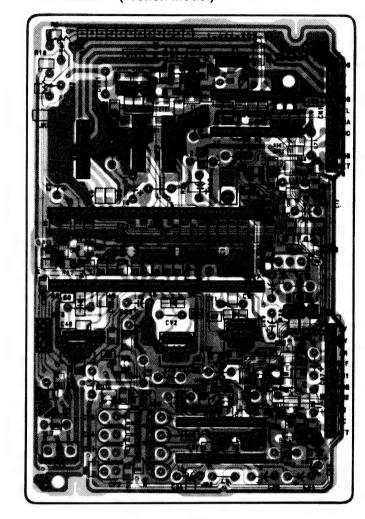


IF BOARD IC3 PC8574 (French Model)



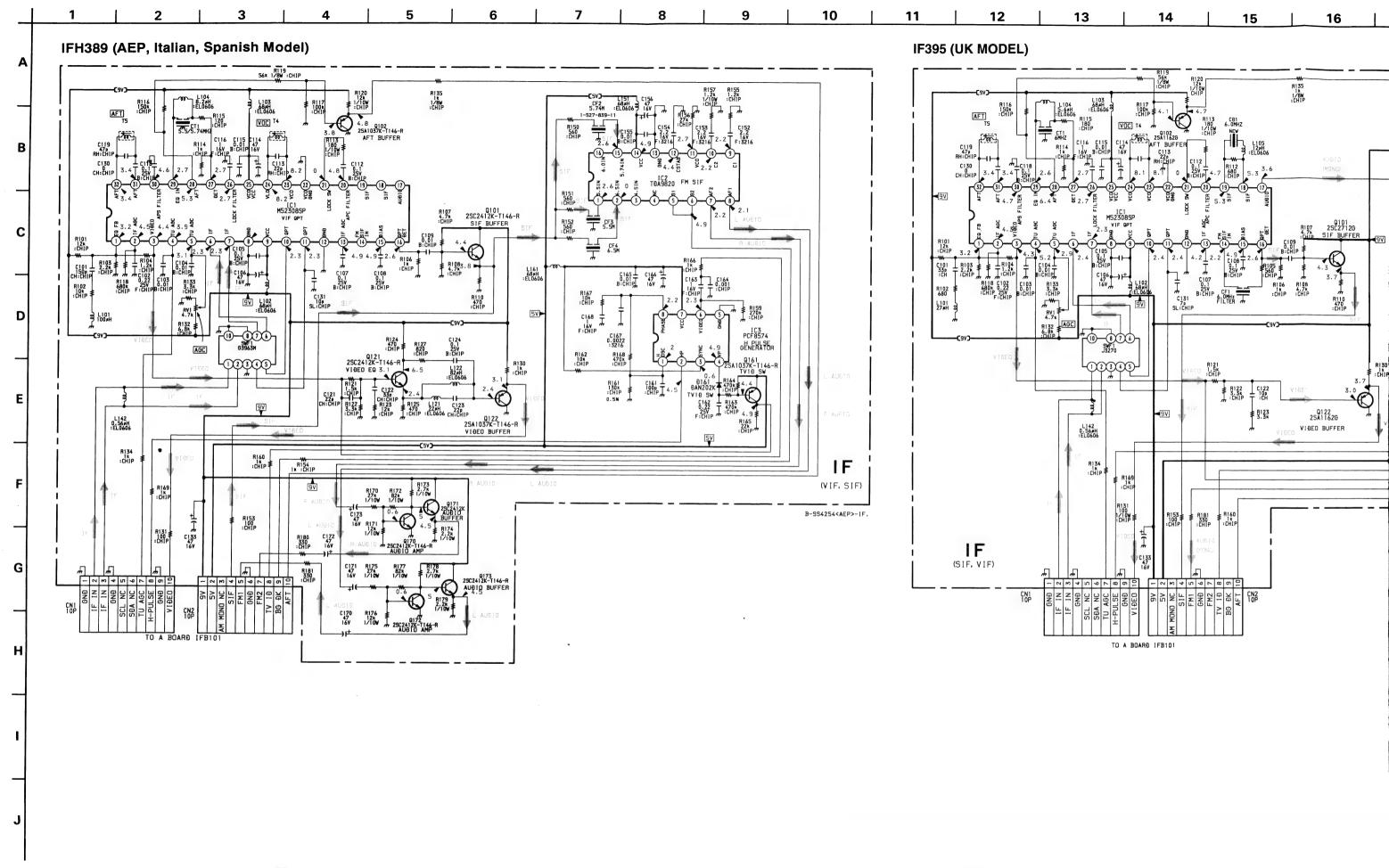


- IF BOARD - (French Model)

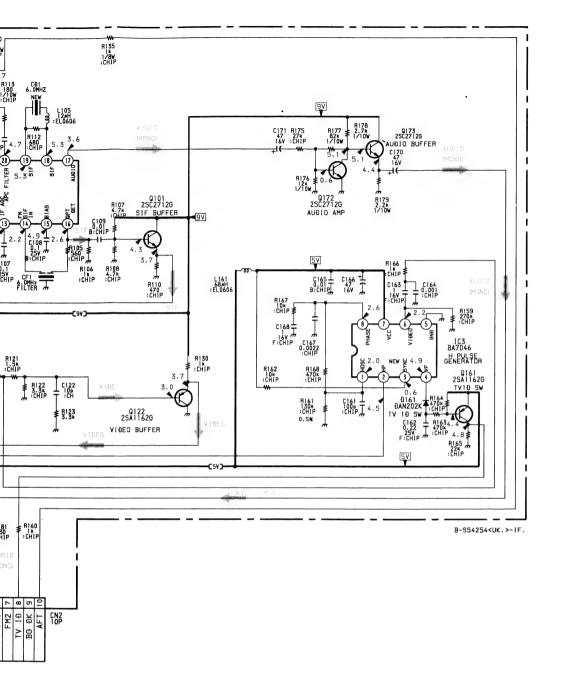


Note :

- Pattern from the side which enables seeing.
- · : Pattern of the rear side.

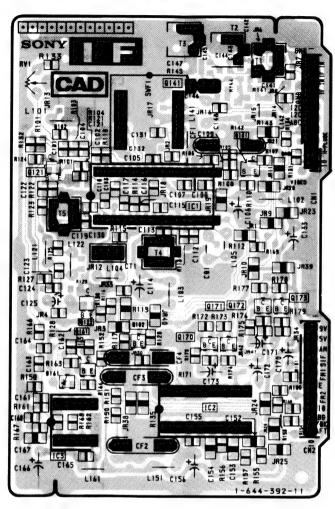




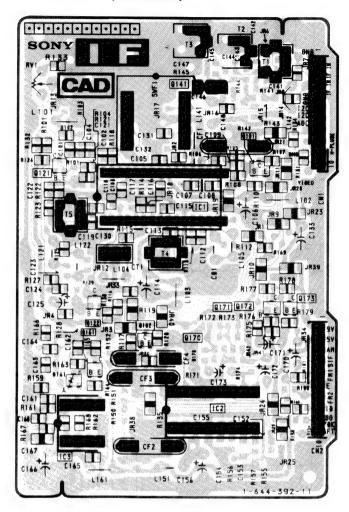




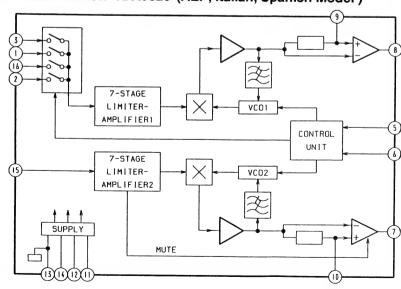
- IF BOARD - (AEP, Italian, Spanish Model)



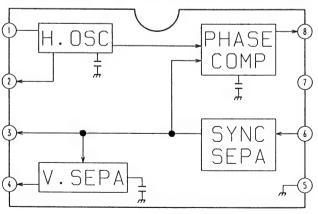
- IF BOARD - (UK Model)

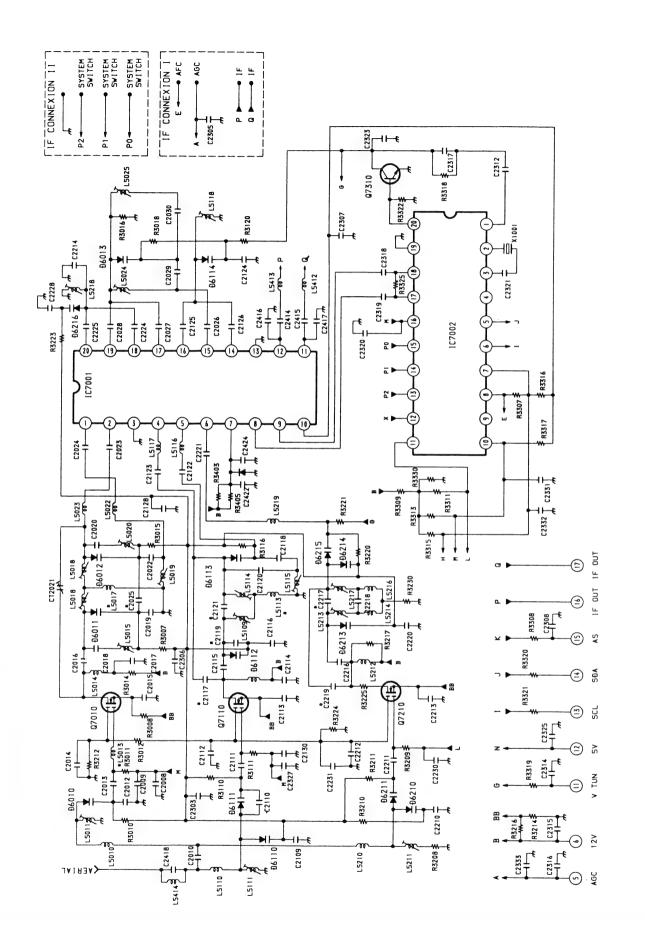


IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)

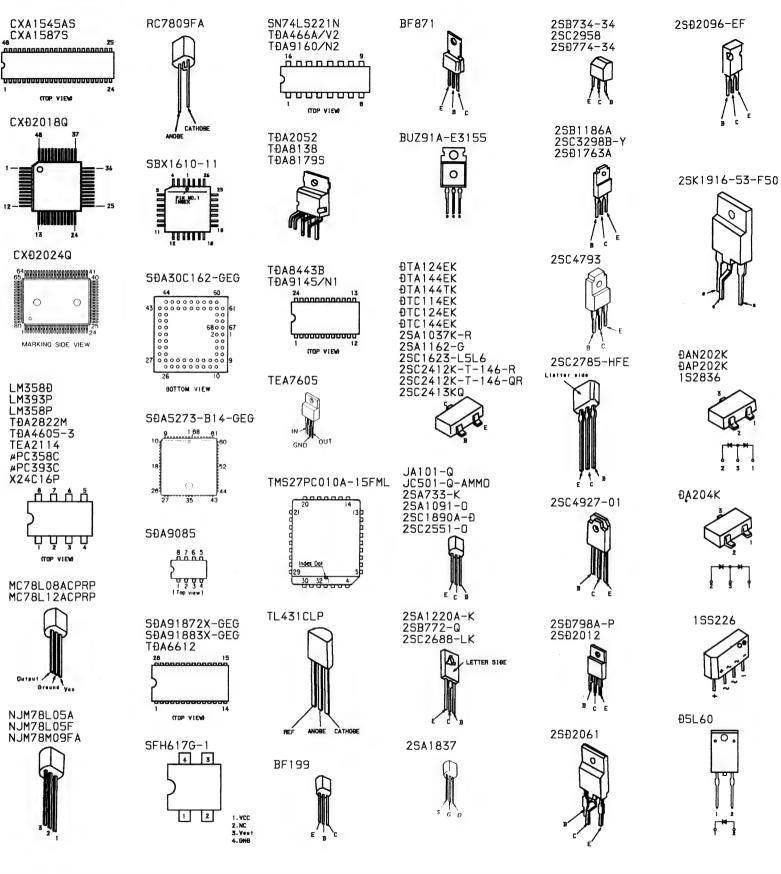


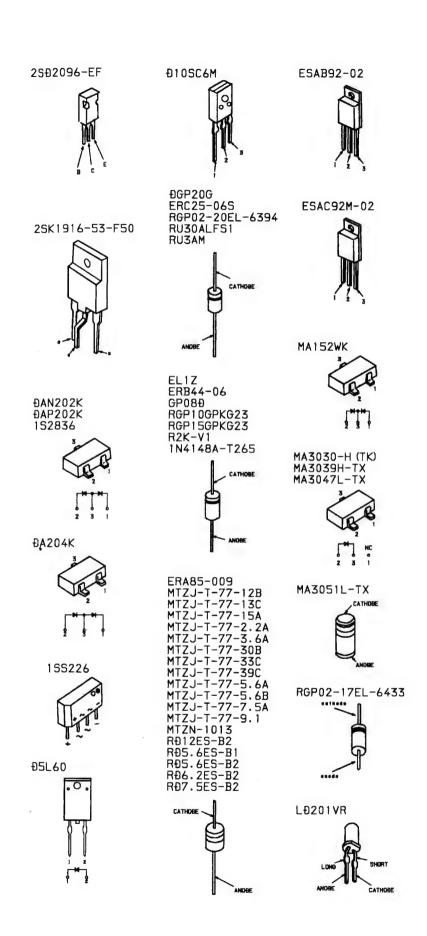
IF BOARD IC3 BA7046 (AEP, Italian, Spanish, UK Model)





5-5. SEMICONDUCTORS





SECTION 6

EXPLODED VIEWS

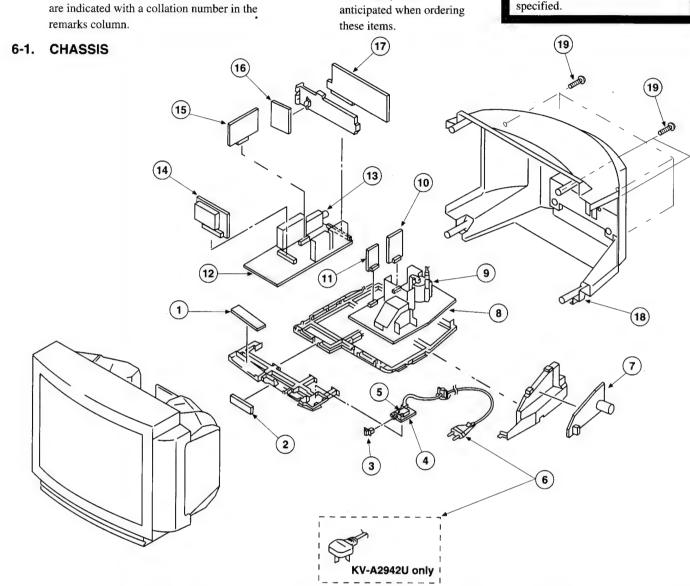
NOTE:

for routine service.

Items with no part number and no description Items marked " * " are not are not stocked because they are seldom required stocked since they are seldom required for routine service. The construction parts of an assembled part Some delay should be anticipated when ordering

The components identified by shading and marked A are critical for safety.

Replace only with the part number specified.

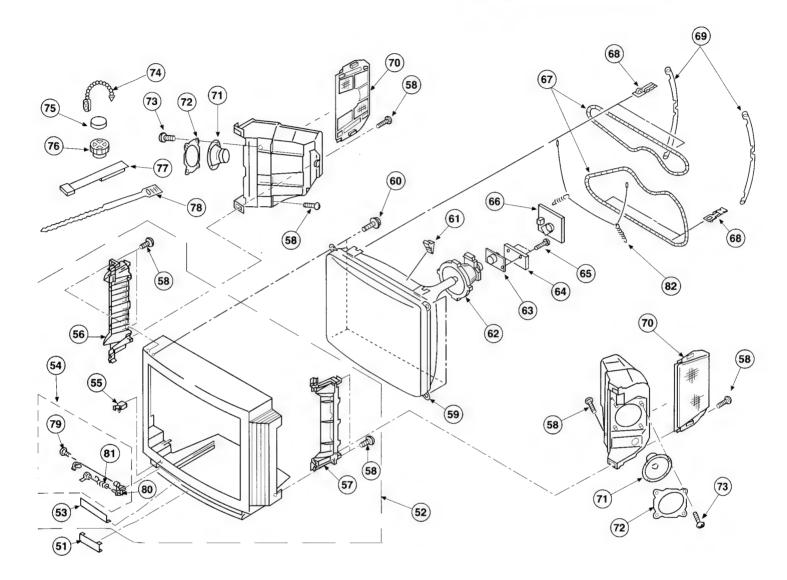


REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-648-314-11			12	*A-1632-218-A	A BOARD, COMPLETE	(KV-A2941A/A2941D/
2	*1-652-942-11	H2 BOARD					A2941K)
					*A-1632-222-A	A BOARD, COMPLETE	(KV-A2941B)
4	*1-648-312-12	F1 BOARD			*A-1632-221-A	A BOARD, COMPLETE	(KV-A2943E)
					*A-1632-192-A	A BOARD, COMPLETE	(KV-A2942U)
				13	1-693-185-11	TUNER (UV916H) (K	V-A2941A/A2941B/
						A2941	D/A2943E/A2941K)
					1-693-184-11	TUNER (U944C) (KV	-A2942U)
				14	*A-1635-023-A	M2 BOARD, COMPLET	E
				15	*A-1630-249-A	A3 BOARD, COMPLET	E (KV-A2941A/A2941B
7	*A-1624-018-A	F2 BOARD, COMPLETE					A2941D/A2941K)
		(KV-A2941A/A2941D)		*A-1630-252-A	A3 BOARD, COMPLET	E (KV-A2943E)
	*A-1624-036-A	F2 BOARD, COMPLETE			*A-1630-219-A	A3 BOARD, COMPLET	•
		(KV-A2941B/A294	3E/A2941K/A2942U)	16	*A-1649-009-A		,
8	*A-1642-097-A	D BOARD, COMPLETE		17	*A-1651-064-A	J BOARD, COMPLETE	
119 4 (F.E. 182)	AND REPORTED IN	Comment of the second		18	4-202-510-11	COVER, REAR	
10	*A-1640-109-A	D5 BOARD, COMPLETE		19	4-039-358-11	SCREW (4X16), (+)	BV TAPPING
11	*A-1642-102-A	D4 BOARD, COMPLETE					

6-2. PICTURE TUBE

The components identified by shading and marked \hat{P} are critical for safety.

Replace only with the part number specified.



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-202-492-31	WINDOW, ORNAMENTAL		66	*A-1638-042-A	C BOARD, COMPLETE	
52	X-4200-138-1	CABINET ASSY (WITH BE	ZEL ASSY)	67	1 1-406-807-11	antigential trapposition in the gradual facilities from the property of the first of the property of the prope	n tal di termina
		53~	58, 79~81	68	4-202-415-01	CLIP, DGC (29")	
53	4-202-493-01	DOOR		69	4-202-416-01	BAND, DGC	
54	X-4031-244-1	DAMPER ASSY	79~81	70	X-4200-136-1	GRILLE ASSY, SPEAKER	1
55	4-392-036-01	CATCHER, PUSH		71	1-544-475-21	SPEAKER	
56	*4-202-509-01	HOLDER (L), SPEAKER		72	4-202-469-01	CLAMP, SPEAKER	
57	*4-202-508-01	HOLDER (R), SPEAKER		73	4-039-358-11	SCREW (4x16), (+) BV	TAPP ING
58	4-039-358-01			74	4-308-870-00	CLIP, LEAD WIRE	
59	A 8-733-853-05	PICTURE TUBE (M68LCT6	iox) — de la	75	1-452-032-00	MAGNET, DISK; 10MM @)
60	4-036-188-01	SCREW (M), PT		76	1-452-094-00	MAGNET, ROTATABLE DI	SK; 15MM Ø
61	3-704-495-01	SPACER, DY		77	X-4306-312-0	PERMALLOY ASSY, CONV	ERGENCE
62 07.5 63 E	A 8-451-422-11			78	3-701-007-00	BAND, BINDING	
	1-452-509-41	NECK ASSY, PICTURE TO	IBE (NA-308)	79	4-033-184-01	SCREW, SPECIAL	
64	*A-1644-040-A	VM BOARD, COMPLETE		80	4-041-017-01		DOOR
65	4-039-357-01	SCREW (3X8), (+) BV T	PAPPING	81	4-041-016-01	SPRING	
				82	4-200-433-01	SPRING, EXTENSION	

ELECTRICAL PARTS LIST SECTION 3

The components identified by shading and marked 🏚 are critical for safety.

Replace only with the part number specified.

- Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mH

RESISTORS

- All resistors are in ohms
- F: nonflammable

F1



A3 (KV-A2941 A/A2941 B)

PART NO.

REF.NO.

DESCRIPTION

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

*1-648-312-12 F1 BOARD

< CONNECTOR >

CN0003 A *1-580-844-11 PIN, CONNECTOR (POWER) CN0831 A *1-695-292-11 PIN, CONNECTOR (POWER)

< FUSE >

F651 A 1-576-232-21 FUSE (H.B.C.) 5A 250V 1-533-230-11 HOLDER, FUSE

< SWITCH >

8651 A 1-571-433-11 SWITCH, PUSH (AC POWER)

*A-1624-018-A F2 BOARD, COMPLETE (KV-A2941A/A2941D)

< CAPACITOR >

C661 A	1-136-519-12	FILM	0.47MF	20%	300V
C662 A	1-136-518-12	FILM	0.33MF	20%	300V
C664 A	1-164-503-61	CERAMIC	0.0022MF	20%	400V
C666	1-124-479-11	ELECT	330MF	20%	25V
C667	1-126-337-11	ELECT	22MF	20%	50V

< CONNECTOR >

CN0005 1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P CN0007 1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P CN0924 *1-568-878-51 PIN, CONNECTOR (PC BOARD) 6P CN0929 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P

CN0931 1: *1-691-291-11 PIN, CONNECTOR (PC BOARD) 5P

< DIODE >

D661 8-719-901-33 DIODE 1SS133 D663 8-719-510-53 DIODE D4SB60L D664 8-719-109-89 DIODE RD5.6ESB2 < TRANSFORMER >

LF661 A 1-423-688-11 TRANSFORMER, LINE FILTER (LFT) LF662 A 1-424-391-11 TRANSFORMER, LINE FILTER (LFT) (KV-A2941A/A2941D)

< TRANSISTOR >

Q661 8-729-920-74 TRANSISTOR 2SC2412K-QR

< RESISTOR >

R664	A 1-244-945-91 A 1-205-949-11		1.8	5%	1/2# 10W	
	* 1-218-265-11		8.2M	5%	10	
R666	1-249-405-11	CARBON	100	5%	1/4W F	1882
R667	1-249-430-11	CARBON	12K	5%	1/4W	
R668	1-249-436-11	CARBON	39K	5%	1/4W	
R669	1-205-949-11	WIREWOUND	1.8	5%	10W	
R671	1-249-417-11	CARBON	1K	5%	1/4W F	

< RELAY >

RY661 1 1-515-720-31 RELAY

< THERMISTOR >

THP661 1 1-809-827-11 THERMISTOR, POSITIVE

< CAPACITOR >

C1101 C1102 C1103 C1104 C1251	1-126-101-11 1-126-101-11 1-163-077-91 1-163-077-00 1-163-009-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100MF 100MF 0.1MF 0.1MF 0.001MF	2 0% 2 0% 1 0% 1 0%	16V 16V 50V 25V 50V
C1252 C1253 C1254 C1255 C1256	1-163-010-11 1-163-014-00 1-163-014-00 1-164-232-11 1-163-022-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0027MF 0.0027MF 0.01MF	1 0% 1 0% 1 0% 1 0% 1 0%	50V 50V 50V 50V 50V
C1257 C1258 C1259 C1260 C1261	1-163-986-00 1-163-986-00 1-164-004-11 1-164-348-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.027MF 0.1MF 0.12MF	10% 10% 10% 10%	25V 25V 25V 25V 25V 50V

A3 (KV-A2941A/A2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C1262 C1263 C1264	1-163-010-11 1-163-014-00 1-163-014-00	CERAMIC CHIP 0.0012MF CERAMIC CHIP 0.0027MF CERAMIC CHIP 0.0027MF	10% 50V 10% 50V 10% 50V	C3251 C3252 C3253	1-163-105-00 1-124-910-11 1-163-038-00	CERAMIC CHIP 33PF ELECT 47MF CERAMIC CHIP 0.1MF	5% 20%	50V 50V 25V
C1265 C1266	1-164-232-11 1-163-022-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.012MF	10% 50V 10% 50V	C3255 C3256	1-163-105-00 1-163-038-00	CERAMIC CHIP 33PF CERAMIC CHIP 0.1MF	5%	50V 25V
C1267 C1268	1-163-986-00 1-163-986-00	CERAMIC CHIP 0.027MF CERAMIC CHIP 0.027MF	10% 25V 10% 25V	C3257 C3259	1-137-437-11 1-126-101-11	FILM 0.0056MF ELECT 100MF	5% 20%	50V 16V
C1269 C1270 C1271	1-164-004-11 1-164-348-11 1-124-916-11	CERAMIC CHIP 0.12MF	10% 25V 10% 25V 20% 50V	C3260 C3264 C3265	1-163-077-91 1-124-907-11 1-124-907-11	CERAMIC CHIP 0.1MF ELECT 10MF ELECT 10MF	20% 20%	50V 50V 50V
C1272 C3201	1-124-910-11 1-164-004-11	CERAMIC CHIP 0.1MF	20% 50V 10% 25V	C3266 C3267	1-124-907-11 1-130-772-00	ELECT 10MF FILM 0.22MF	20% 5%	50V 63V
C3202 C3203 C3204	1-164-004-11 1-164-004-11 1-136-157-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF FILM 0.022MF	10% 25V 10% 25V 5% 50V	C3272 C3273 C3274	1-163-038-00 1-163-011-11 1-124-910-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0015MF ELECT 47MF	10% 20%	25V 50V 50V
C3205 C3206	1-136-157-00 1-136-165-00	FILM 0.022MF FILM 0.1MF	5% 50V 5% 50V	C3275 C3276	1-163-011-11 1-163-809-11	CERAMIC CHIP 0.0015MF CERAMIC CHIP 0.047MF	10% 10%	50V 25V
C3207 C3208 C3209	1-136-161-00 1-163-137-00 1-136-165-00	FILM 0.047MF CERAMIC CHIP 680PF FILM 0.1MF	5% 50V 5% 50V 5% 50V	C3277 C3278 C3279	1-163-809-11 1-163-023-00 1-163-023-00	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.015MF	10% 10% 10%	25V 50V 50V
C3210 C3211	1-163-137-00 1-136-161-00	CERAMIC CHIP 680PF FILM 0.047MF	5% 50V 5% 50V	C3280 C3281	1-163-133-00 1-164-005-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.47MF	5%	50V 25V
C3212 C3213 C3214	1-124-907-11 1-124-907-11	ELECT 10MF ELECT 10MF	20% 50V 20% 50V	C3282 C3283	1-163-133-00 1-164-005-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.47MF	5%	50V 25V 25V
C3215	1-136-165-00 1-136-165-00	FILM 0.1MF	5% 50V	C3284	1-164-005-11		•••	25V
C3216 C3217 C3218	1-124-907-11 1-124-907-11 1-137-368-11	ELECT 10MF	20% 50V 20% 50V 5% 50V	C3286 C3287 C3288	1-124-907-11 1-164-005-11 1-124-907-11	ELECT 10MF CERAMIC CHIP 0.47MF ELECT 10MF	20% 20%	50V 25V 50V
C3219	1-124-916-11		20% 63V	C3289	1-124-907-11	ELECT 10MF	20%	50V
C3220 C3221 C3222 C3223	1-164-004-11 1-136-169-00 1-124-927-11 1-124-927-11	FILM 0.22MF ELECT 4.7MF	10% 25V 5% 50V 20% 50V 20% 50V	C3290 C3291 C3293	1-163-038-00 1-163-018-00 1-124-907-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0056MF ELECT 10MF	10% 20%	25V 50V 50V
C3224	1-136-169-00		5% 50V		< COM	NECTOR >		
C3225 C3226 C3227	1-136-169-00 1-136-169-00 1-136-175-00	FILM 0.22MF FILM 0.68MF	5% 50V 5% 50V 5% 50V	CN0201 CN0227 CN0235	1-695-300-11 *1-564-509-11 *1-564-506-11	PLUG, CONNECTOR 6P PLUG, CONNECTOR 3P	ARD 201	
C3228 C3229	1-163-133-00 1-137-368-11	CERAMIC CHIP 470PF FILM 0.0047MF	5% 50V 5% 50V	CN0246	*1-564-506-11	PLUG, CONNECTOR 3P		
C3230	1-136-161-00	FILM 0.047MF	5% 50V		< DIC	DDE >		
C3231 C3232 C3233	1-124-911-11 1-124-927-11	ELECT 4.7MF	20% 50V 20% 50V 50V	D3201		DIODE RD9.1ESB3		
C3234		CERAMIC CHIP 0.0033MF CERAMIC CHIP 470PF	5% 50V			RRITE BEAD >		
C3235 C3236	1-164-004-11	CERAMIC CHIP 0.068MF CERAMIC CHIP 0.1MF	50V 10% 25V	FB1101 FB1105 FB3201	1-410-396-41	FERRITE BEAD INDUCTOR (FERRITE BEAD INDUCTOR (FERRITE BEAD INDUCTOR ().45UH	
C3237 C3238 C3239	1-124-126-00	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.068MF	10% 25V 20% 10V 50V		< IC	>		
C3240	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	IC1251 IC3201	8-759-257-64 8-759-267-99			
C3241 C3242	1-163-018-00	CERAMIC CHIP 0.0056MF CERAMIC CHIP 0.0056MF	10% 50V 10% 50V	IC3202 IC3203	8-759-300-71	IC HD14053BFP IC CXA1875M-T4		
C3243 C3244		CERAMIC CHIP 0.1MF	25V 20% 16V	IC3204	8-759-909-71	IC BA4558F		
C3245	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	IC3205 IC3206	8-759-266-65 8-759-633-83	IC TDA6622-5 IC M50198P		
C3246 C3247	1-163-237-11	CERAMIC CHIP 27PF CERAMIC CHIP 0.1MF	5% 50V 25V		< CO1			
C3248 C3250	1-124-477-11	ELECT 47MF	20% 16V	T 4 4 0 4				
C3430	T-T 63-038-00	CERAMIC CHIP 0.1MF	25V	L1101	1-408-405-00	INDUCTOR 4.7UH		

A3 (KV-A2941A/A2941B)

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	N	REMARK
L1251 L3201	1-408-421-00 1-408-421-00	INDUCTOR	100UH 100UH		R3216 R3217 R3218	1-216-049-00 1-216-097-00 1-216-198-91	METAL GLAZE	1K 5% 100K 5% 1K 5%	1/10W
Q1251 Q1252 Q3203 Q3205 Q3206	8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74	MSISTOR > TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SC TRANSISTOR 2SC	2412K-QR 1162-G 2412K-QR		R3219 R3220 R3221 R3222 R3223	1-216-198-91 1-216-699-11 1-216-077-00 1-216-071-00 1-216-109-00	METAL CHIP METAL GLAZE METAL GLAZE	1K 5% 100K 0. 15K 5% 8.2K 5% 330K 5%	50% 1/10W 5 1/10W 5 1/10W
Q3207 Q3208 Q3209	8-729-216-22 8-729-920-74		1162-G 2412K-QR		R3224 R3225 R3226 R3227 R3228	1-216-077-00 1-216-079-00 1-216-077-00 1-216-220-00 1-216-013-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 5% 18K 5% 15K 5% 8.2K 5% 33 5%	5 1/10W 5 1/10W 5 1/8W
	< RES	SISTOR >			R3229	1-216-067-00		5.6K 5%	
JR3201 JR3202 JR3203 JR3204 JR3206	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3230 R3231 R3232 R3233	1-216-079-00 1-216-071-00 1-216-070-00 1-216-071-00	METAL GLAZE METAL GLAZE	18K 5% 8.2K 5% 7.5K 5% 8.2K 5%	1/10W 1/10W 1/10W
JR3208 JR3209 JR3210 JR3211	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W	R3234 R3235 R3236 R3237 R3238	1-216-097-00 1-216-097-00 1-216-097-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 100K 5% 100K 5% 0 5% 0 5%	1/10W 1/10W 1/10W
R1251 R1252 R1253 R1254 R1255	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 4.7K 5% 47K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3239 R3240 R3241 R3242 R3243	1-216-081-00 1-216-296-91 1-216-121-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE	22K 5% 0 5% 1M 5% 22K 5% 22K 5%	1/8W 1/10W 1/10W
R1256 R1257 R1258 R1259 R1260	1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 47K 5% 4.7K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3244 R3245 R3246 R3247 R3248	1-216-097-00 1-216-097-00 1-216-081-00 1-216-109-00 1-216-033-00	METAL GLAZE METAL GLAZE	100K 5% 100K 5% 22K 5% 330K 5% 220 5%	1/10W 1/10W 1/10W
R1261 R1262 R1263 R1264 R1265	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 4.7K 5% 47K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3249 R3250 R3253 R3254 R3255	1-216-033-00 1-216-089-91 1-216-083-00 1-216-083-00 1-216-089-91	METAL GLAZE METAL GLAZE	220 5% 47K 5% 27K 5% 27K 5% 47K 5%	1/10W 1/10W 1/10W
R1266 R1267 R1268 R1269 R1270	1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5% 47K 5% 4.7K 5% 47K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3256 R3257 R3258 R3259 R3260	1-216-083-00 1-216-083-00 1-216-089-91 1-216-097-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 27K 5% 47K 5% 100K 5% 330K 5%	1/10W 1/10W 1/10W
R1271 R1272 R3201 R3202 R3203	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 220 5% 220 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3261 R3262 R3263 R3264 R3265	1-216-097-00 1-216-097-00 1-216-081-00 1-216-049-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 100K 5% 22K 5% 1K 5% 0 5%	1/10W 1/10W 1/10W
R3204 R3205 R3206 R3207 R3208	1-216-041-00 1-216-070-00 1-216-089-91 1-216-077-00 1-216-070-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 7.5K 5% 47K 5% 15K 5% 7.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3266 R3267 R3268 R3270 R3271	1-216-295-00 1-216-097-00 1-216-295-00 1-216-089-91 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 100K 5% 0 5% 47K 5% 0 5%	1/10W 1/10W 1/10W
R3209 R3210 R3211 R3212 R3213	1-216-089-91 1-216-077-00 1-216-294-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 15K 5% 10M 5% 22K 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R3272 R3275 R3277 R3278 R3288	1-216-295-00 1-216-295-00 1-216-295-00 1-216-238-91 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 47K 5% 220 5%	1/10W 1/10W 1/8W
R3214 R3215	1-216-049-00 1-216-049-00		1K 5% 1K 5%	1/10W 1/10W	R3289 R3290	1-216-033-00 1-216-033-00		220 5% 220 5%	

A3 (KV-A2941A/A2941B)

A3 (KV-A2943E)

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R3291 R3292 R3293		METAL GLAZE 220 5% METAL GLAZE 100 5% METAL GLAZE 100 5%	1/10W	1	C1127 C1128 C1129 C1130	1-163-038-00 1-124-477-11 1-163-038-00 1-163-205-00	ELECT 47MF CERAMIC CHIP 0.1MF	20% 10%	25V 16V 25V 50V
R3294 R3295 R3296 R3297 R3298	1-216-089-91 1-216-089-91 1-216-089-91 1-216-089-91 1-247-807-31	METAL GLAZE 47K 5% METAL GLAZE 47K 5% METAL GLAZE 47K 5%	1/10W 1/10W 1/10W		C1131 C1132 C1133 C1134 C1135	1-163-059-00 1-163-038-00 1-124-907-11 1-163-009-11 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.001MF	20% 10%	50V 25V 50V 50V 25V
R3299 R3300 R3301 R3302 R3303	1-216-049-00 1-216-049-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE 1K 59 METAL GLAZE 10K 59	1/10W 1/10W 1/10W	7 7 7	C1136 C1137 C1138 C1139 C1140	1-163-117-00 1-163-038-00	CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF CERAMIC CHIP 33PF CERAMIC CHIP 33PF	5% 5% 5% 5%	50V 25V 50V 50V 50V
R3304 R3307 R3308 R3309 R3310	1-216-073-00 1-216-049-00 1-216-246-91 1-216-097-00 1-216-081-00	METAL GLAZE 1K 55 METAL GLAZE 100K 55 METAL GLAZE 100K 55 METAL GLAZE 22K 55	6 1/10V 6 1/8W 6 1/10V	v V	C1141 C1142 C1143 C1144 C1145	1-163-205-00 1-163-057-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0068MF CERAMIC CHIP 330PF CERAMIC CHIP 150PF	5% 10% 5% 5%	50V 50V 50V 50V 50V
X3201		YSTAL > OSCILLATOR, CRYSTAL			C1146 C1147	1-163-038-00 1-124-477-11		20%	25V 16V
		***********	******	*****	C1148 C1149 C1150	1-164-161-11 1-124-477-11 1-163-038-00	CERAMIC CHIP 0.0022MF ELECT 47MF	10ኔ 20ኔ	50V 16V 25V
		A3 BOARD, COMPLETE (K ************************************			C1151 C1152 C1153	1-163-038-00 1-124-477-11 1-163-087-00	ELECT 47MF CERAMIC CHIP 4PF	20% 0.25F	25V 16V PF 50V
	< FI	LTER >			C1154 C1155	1-163-038-00 1-124-477-11		20%	25V 16V
BP1101 CF1101	1-236-238-11	FILTER, BAND PASS (KV FILTER, BAND PASS (KV TRAP, CERAMIC (6.0MHZ	-A2942U)	42U)	C1156 C1157 C1158 C1159	1-163-009-11 1-163-038-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF	10% 10% 5%	50V 50V 25V 50V
	< CA	PACITOR >			C1251	1-163-009-11	CERAMIC CHIP 0.001MF	(KV-A) 106	2942U) 50V
C1101 C1102 C1103 C1104 C1105	1-163-077-00	ELECT 100MF ELECT 100MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF	20% 20% 10% 10%	16V 16V 50V 25V 16V	C1252 C1253 C1254 C1255 C1256	1-163-010-11 1-163-014-00 1-163-014-00 1-164-232-11 1-163-022-00	CERAMIC CHIP 0.0027MF CERAMIC CHIP 0.0027MF CERAMIC CHIP 0.01MF	106 106 106 106 106	50V 50V 50V 50V 50V
C1106 C1107 C1108 C1109 C1110	1-163-059-00 1-163-033-00	CERAMIC CHIP 180PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.33MF	5% 10%	50V 50V 50V 50V 25V	C1257 C1258 C1259 C1260 C1261	1-163-986-00 1-163-986-00 1-164-004-11 1-164-348-11 1-163-009-11	CERAMIC CHIP 0.027MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.12MF	1% 1% 1% 1%	25V 25V 25V 25V 50V
C1111 C1112 C1113 C1114 C1115	1-164-161-11 1-124-477-11	CERAMIC CHIP 0.1MF	10% 10% 20% 20%	50V 50V 16V 25V 16V	C1262 C1263 C1264 C1265 C1266	1-163-010-11 1-163-014-00 1-163-014-00 1-164-232-11 1-163-022-00	CERAMIC CHIP 0.0012MF CERAMIC CHIP 0.0027MF CERAMIC CHIP 0.0027MF CERAMIC CHIP 0.01MF	1% 1% 1% 1% 1%	50V 50V 50V 50V 50V
C1116 C1117 C1118 C1119 C1120	1~106-228-00 1-163-081-00 1~163-113-00 1-163-129-00 1~163-193-00	O CERAMIC CHIP 0.22MF O CERAMIC CHIP 68PF O CERAMIC CHIP 330PF	10% 5% 5% 5%	100V 25V 50V 50V 50V	C1267 C1268 C1269 C1270 C1271	1-163-986-00 1-163-986-00 1-164-004-1: 1-164-348-1: 1-124-916-1:	O CERAMIC CHIP 0.027MF O CERAMIC CHIP 0.027MF 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 0.12MF	1% 1% 1% 1% 2%	25V 25V 25V 25V 50V
C1121 C1122 C1123 C1124 C1125	1-163-113-0 1-163-081-0 1-106-228-0 1-124-477-1 1-124-477-1	0 CERAMIC CHIP 0.22MF 0 MYLAR 0.22MF 1 ELECT 47MF	5% 10% 20% 20%	50V 25V 100V 16V 16V	C1272 C3201 C3202 C3203 C3204	1-124-910-1 1-164-004-1 1-164-004-1 1-164-004-1 1-137-128-9	1 ELECT 47MF 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 0.1MF	2 % 1 % 1 % 1 %	50V 25V 25V 25V 63V
C1126	1-163-077-0	0 CERAMIC CHIP 0.1MF	10%	25V	03204	2 10: 120°J		,	

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C3205 C3206 C3207 C3208 C3209	1-137-128-91 1-136-165-00 1-136-187-11 1-163-137-00 1-136-165-00	FILM 0.1MF FILM 0.047ME CERAMIC CHIP 680PF	5%	63V 50V 63V 50V 50V	C3272 C3273 C3274 C3275 C3276	1-163-038-00 1-163-011-11 1-124-910-11 1-163-011-11 1-163-809-11	CERAMIC CHIP 0.0015M ELECT 47MF CERAMIC CHIP 0.0015M	20% F 10%	25V 50V 50V 50V 25V
C3210 C3211 C3212 C3213 C3214	1-163-137-00 1-136-187-11 1-124-907-11 1-124-907-11 1-136-165-00	FILM 0.047MF ELECT 10MF ELECT 10MF	5% 5% 20% 20% 5%	50V 63V 50V 50V 50V	C3277 C3278 C3279 C3280 C3281	1-163-133-00		10%	25V 50V 50V 50V 25V
C3215 C3216 C3217 C3218 C3219	1-136-165-00 1-124-907-11 1-124-907-11 1-137-368-11 1-124-916-11	ELECT 10MF ELECT 10MF FILM 0.0047M	5% 20% 20% F 5% 20%	50V 50V 50V 50V 63V	C3282 C3283 C3284 C3285 C3286	1-164-005-11 1-164-005-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF ELECT 10MF	5% 20%	50V 25V 25V 25V 50V
C3220 C3221 C3222 C3223 C3224	1-164-004-11 1-136-169-00 1-124-927-11 1-124-927-11 1-136-169-00	ELECT 4.7MF ELECT 4.7MF	10% 5% 20% 20% 5%	25V 50V 50V 50V 50V	C3287 C3288 C3289 C3290	1-124-907-11 1-124-907-11	CERAMIC CHIP 0.47MF ELECT 10MF ELECT 10MF CERAMIC CHIP 0.1MF	20% 20%	25V 50V 50V 25V
C3225	1-136-169-00	FILM 0.22MF	5%	50V		< C01	NNECTOR >		
C3226 C3227 C3228 C3229	1-136-169-00 1-136-175-00 1-163-133-00 1-137-368-11	FILM 0.22MF FILM 0.68MF CERAMIC CHIP 470PF	5% 5% 5%	50V 50V 50V 50V	CN0201 CN0227 CN0246 CN0248	*1-564-509-11 *1-564-506-11	CONNECTOR, BOARD TO PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P	BOARD 20P	
C3230	1-136-187-11	FILM 0.047MF	5%	63V		< DIC	ODE >		
C3231 C3232 C3233 C3234	1-124-911-11 1-124-927-11 1-136-015-00 1-163-133-00		20% 20% F 5%	50V 50V 50V 50V	D1101 D1102 D1103	8-719-914-44 8-719-027-70 8-719-820-71	DIODE DAP202K DIODE 1SV217-TPH3 DIODE 1SV214		
C3235 C3236	1-163-036-00	CERAMIC CHIP 0.068MF CERAMIC CHIP 0.1MF	10%	50V 25V	D3201		DIODE RD9.1ESB3		
C3237 C3238		CERAMIC CHIP 0.1MF	10% 10% 20%	25V 25V 10V	FB1101		RRITE BEAD >	0.45	
C3240 C3241 C3242 C3243	1-163-036-00 1-163-133-00 1-163-018-00 1-163-018-00 1-163-038-00	CERAMIC CHIP 0.069MF CERAMIC CHIP 470PF CERAMIC CHIP 0.0056M CERAMIC CHIP 0.0056M CERAMIC CHIP 0.1MF	5% F 10% F 10%	50V 50V 50V 50V 25V	FB1101 FB1102 FB1103 FB1104 FB1105	1-410-396-41 1-410-396-41 1-410-396-41	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR >	0.45UH 0.45UH 0.45UH	
C3244	1-124-477-11	ELECT 47MF	20%	16V	IC1101	8-759-511-88	TO MD30722		
C3245 C3246 C3247 C3248 C3250	1-163-237-11 1-163-237-11 1-163-038-00 1-124-477-11 1-163-038-00	ELECT 47MF	5% 5% 20%	50V 50V 25V 16V 25V	IC1101 IC1102 IC1251 IC3201 IC3202	8-759-184-28 8-759-257-64 8-759-267-99	IC SAA7282-ZP IC TDA7317		
C3251 C3252 C3253 C3255 C3256	1-163-105-00 1-124-910-11 1-163-038-00	CERAMIC CHIP 33PF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 33PF	5% 20% 5%	50V 50V 25V 50V	IC3203 IC3204 IC3205 IC3206	8-759-909-71 8-759-266-65 8-759-633-83	IC TDA6622-5 IC M50198P		
				25V		< COI	.ь >		
C3257 C3258 C3259 C3260 C3261	1-137-437-11 1-124-907-11 1-126-101-11 1-163-077-91 1-124-907-11	ELECT 10MF ELECT 100MF CERAMIC CHIP 0.1MF	5% 20% 20% 20%	50V 50V 16V 50V 50V	L1101 L1102 L1103 L1104 L1105	1-408-405-00 1-408-405-00 1-410-119-11 1-410-119-11 1-408-411-00	INDUCTOR 4.7UH INDUCTOR 1MMH INDUCTOR 1MMH	KV-A2942U))
C3263 C3264 C3265 C3266	1-124-907-11 1-124-907-11 1-124-907-11	ELECT 10MF ELECT 10MF	20% 20% 20%	50V 50V 50V	L1251 L3201	1-408-421-00 1-408-421-00	INDUCTOR 100UH		
C3267	1-124-907-11 1-130-772-00		20% 5%	50V 63V		< TRA	NSISTOR >		
					Q1101	8-729-920-74	TRANSISTOR 2SC2412K-Q	R	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1102 Q1103 Q1104	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1134 R1135 R1136	1-216-212-00 1-216-081-00 1-216-081-00	METAL GLAZE 22K	5% 1/8W 5% 1/10W 5% 1/10W
Q1105 Q1106 Q1107 Q1108	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR		R1136 R1137 R1138 R1139 R1140	1-216-081-00 1-216-095-00 1-216-097-00 1-216-005-00 1-216-061-00	METAL GLAZE 82K METAL GLAZE 100K METAL GLAZE 15	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
Q1251 Q1252	8-729-920-74 8-729-920-74			R1141 R1142	1-216-061-00 1-216-033-00	METAL GLAZE 220	5% 1/10W 5% 1/10W
Q3203 Q3205 Q3206 Q3207	8-729-216-22 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1143 R1144 R1145	1-216-049-00 1-216-049-00 1-216-001-00	METAL GLAZE 1K METAL GLAZE 10	5% 1/10W 5% 1/10W 5% 1/10W
Q3208 Q3209	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1146 R1147 R1148	1-216-049-00 1-216-045-00 1-216-049-00	METAL GLAZE 680	5% 1/10W 5% 1/10W 5% 1/10W
Q3203		SISTOR >		R1149 R1150	1-216-001-00 1-216-045-00		5% 1/10W 5% 1/10W
JR3201 JR3202 JR3203 JR3204 JR3206	1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1151 R1152 R1153 R1154 R1251	1-216-049-00 1-216-049-00 1-216-049-00 1-216-041-00 1-216-089-91	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 470	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
JR3208 JR3209 JR3210 JR3211 JR3212	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W	R1252 R1253 R1254 R1255 R1256	1-216-065-00	METAL GLAZE 47K METAL GLAZE 4.7K METAL GLAZE 47K	5% 1/10W
R1101 R1102 R1103 R1104 R1105	1-216-188-00 1-216-049-00 1-216-049-00 1-216-041-00 1-216-005-00	METAL GLAZE 1K 5% METAL GLAZE 1K 5% METAL GLAZE 470 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R1257 R1258 R1259 R1260 R1261	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91	METAL GLAZE 4.7K METAL GLAZE 47K METAL GLAZE 4.7K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
R1106 R1107 R1108 R1109 R1110	1-216-185-11 1-216-042-00 1-216-063-00 1-216-202-00 1-216-196-00	METAL GLAZE 510 5% METAL GLAZE 3.9K 5% METAL GLAZE 1.5K 5%	1/8W 1/10W 1/10W 1/8W 1/8W	R1262 R1263 R1264 R1265 R1266	1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00	METAL GLAZE 47K METAL GLAZE 4.7K METAL GLAZE 47K	5% 1/10W
R1111 R1112 R1113 R1114 R1115	1-216-001-00 1-216-105-00	METAL GLAZE	1/10W 1/10W 1/10W 1/10W 1/10W	R1267 R1268 R1269 R1270 R1271	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-033-00	METAL GLAZE 47K METAL GLAZE 4.7K	5% 1/10W
R1116 R1117 R1118 R1119 R1120	1-216-097-00 1-216-097-00 1-216-073-00	0 METAL GLAZE 1K 5% 0 METAL GLAZE 100K 5% 0 METAL GLAZE 100K 5% 0 METAL GLAZE 10K 5% 0 METAL GLAZE 27K 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R1272 R3201 R3202 R3203 R3204	1-216-033-00 1-216-033-00 1-216-033-00 1-216-041-00 1-216-041-00) METAL GLAZE 220) METAL GLAZE 220) METAL GLAZE 470	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
R1121 R1122 R1123 R1124 R1125	1-216-158-0 1-216-158-0 1-216-089-9	0 METAL GLAZE 22K 5% 0 METAL GLAZE 22 5% 0 METAL GLAZE 22 5% 1 METAL GLAZE 47K 5% 0 METAL GLAZE 100K 5%	1/10W 1/8W 1/8W 1/10W 1/10W	R3205 R3206 R3207 R3208 R3209	1-216-070-00 1-216-089-91 1-216-077-00 1-216-070-00 1-216-089-91	l METAL GLAZE 47K D METAL GLAZE 15K D METAL GLAZE 7.5K	5% 1/10W 5% 1/10W
R1126 R1127 R1128 R1129 R1130	1-216-097-0 1-216-089-9 1-216-089-9	0 METAL GLAZE 6.8K 5% 0 METAL GLAZE 100K 5% 1 METAL GLAZE 47K 5% 1 METAL GLAZE 47K 5% 1 METAL GLAZE 100K 5%	1/8W 1/10W 1/10W 1/10W 1/8W	R3210 R3211 R3212 R3213 R3214	1-216-077-00 1-216-294-00 1-216-081-00 1-216-081-00 1-216-049-00	O METAL GLAZE 10M O METAL GLAZE 22K O METAL GLAZE 22K	5% 1/10W 5% 1/8W 5% 1/10W 5% 1/10W 5% 1/10W
R1131 R1132 R1133	1-216-097-0	0 METAL GLAZE 6.8K 5% 0 METAL GLAZE 100K 5% 1 METAL GLAZE 47K 5%	1/8W 1/10W 1/10W	R3215 R3216 R3217	1-216-049-00 1-216-049-00 1-216-097-00	0 METAL GLAZE 1K	5% 1/10W 5% 1/10W 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	N L		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R3218 R3219	1-216-198-91 1-216-198-91		1K 1K	5% 5%	1/8W 1/8W	R3293 R3294	1-216-025-00 1-216-089-91		00 5% 7 K 5%	1/10W 1/10W	
R3220 R3221 R3222 R3223 R3224	1-216-699-11 1-216-077-00 1-216-071-00 1-216-109-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 15K 8.2K 330K 15K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3295 R3296 R3297 R3298 R3299	1-216-089-91 1-216-089-91 1-216-089-91 1-247-807-31 1-216-049-00	METAL GLAZE 4 METAL GLAZE 4 CARBON 1	7K 5% 7K 5% 7K 5% 00 5% K 5%	1/10W 1/10W 1/10W 1/4W 1/10W	ī ī
R3225 R3226 R3227 R3228 R3229	1-216-079-00 1-216-077-00 1-216-220-00 1-216-013-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 15K 8.2K 33 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R3300 R3301 R3302 R3303 R3304	1-216-049-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1	K 5% OK 5% OK 5% OK 5% OK 5%	1/10W 1/10W 1/10W 1/10W 1/10W	ī ī
R3230 R3231 R3232 R3233 R3234	1-216-079-00 1-216-071-00 1-216-070-00 1-216-071-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 8.2K 7.5K 8.2K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3307 R3308 R3309 R3310	1-216-049-00 1-216-246-91 1-216-097-00 1-216-081-00	METAL GLAZE 1: METAL GLAZE 2:	K 5% 00K 5% 00K 5% 2K 5%	1/10W 1/8W 1/10W 1/10W	ī
R3235	1-216-097-00		100K	5%	1/10W		< CRY	STAL >			
R3236 R3237 R3238 R3239	1-216-097-00 1-216-295-91 1-216-295-91 1-216-057-00	METAL GLAZE METAL GLAZE	100K 0 0 2.2K	5% 5%	1/10W 1/10W 1/10W 1/10W	X1101 X1102 X3201	1-579-282-21 1-579-283-11	VIBRATOR, CRYSTI VIBRATOR, CRYSTI VIBRATOR, CRYSTI OSCILLATOR, CRYSTI	AL (KV-A: AL (KV-A:		
R3240	1-216-296-91	METAL GLAZE	0	5%	1/8W	*****	*******	******	******	******	*****
R3241 R3242 R3243 R3244	1-216-121-00 1-216-081-00 1-216-081-00 1-216-097-00	METAL GLAZE	1M 22K 22K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W			A BOARD, COMPLETA	** A2941	1K)	941D/
R3245 R3246 R3247	1-216-097-00 1-216-081-00 1-216-109-00	METAL GLAZE METAL GLAZE	100K 22K 330K	5% 5% 5%	1/10W 1/10W 1/10W		*A-1632-221-A	A BOARD, COMPLET	re (KV-A2	2943E)	
R3248 R3249	1-216-033-00 1-216-033-00		220 220	5% 5%	1/10W 1/10W		*A-1632-192-A	A BOARD, COMPLET	TE (KV-AZ	2942U)	
R3250 R3253 R3254 R3255 R3256	1-216-089-91 1-216-083-00 1-216-083-00 1-216-089-91 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 27K 27K 27K 47K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		4-812-134-00	HOLDER, IC SPACER, INSULAT RIVET NYLON, 3.5 ACITOR >			
R3257	1-216-083-00	MEMAI CIATE	27K	5%	1/10W	0071			m	200	1 (77
R3258 R3259 R3260 R3261	1-216-089-91 1-216-097-00 1-216-109-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 100K 330K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C071 C072 C074 C102 C103	1-126-103-11	ELECT 220 CERAMIC CHIP 220)MF)PF)MF	20% 20% 10% 20%	16V 16V 50V 16V 50V
R3262 R3263 R3264 R3265 R3266	1-216-097-00 1-216-081-00 1-216-049-00 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	100K 22K 1K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C104 C105 C106 C110 C120	1-124-477-11 1-124-916-11 1-124-927-11 1-124-478-11 1-163-031-11	ELECT 22M ELECT 4.7	if MF MF	20% 20% 20% 20%	16V 50V 50V 25V 50V
R3267 R3268 R3270 R3271 R3272	1-216-097-00 1-216-295-91 1-216-089-91 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	100K 0 47K 0 0	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C201 C202 C203 C204 C205		FILM 0.0 CERAMIC CHIP 0.4 CERAMIC CHIP 0.4	7MF	5% 5% 20%	50V 50V 25V 25V 50V
R3275 R3277 R3278 R3288 R3289	1-216-295-91 1-216-295-91 1-216-238-91 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 47K 220 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	C206 C207 C208 C209 C210	1-137-613-11 1-164-005-11 1-164-005-11	CERAMIC CHIP 0.0 FILM 0.0 CERAMIC CHIP 0.4 CERAMIC CHIP 0.4 CERAMIC CHIP 0.4	018MF 7MF 7MF	10% 2%	50V 100V 25V 25V 25V
R3290 R3291 R3292	1-216-033-00 1-216-033-00 1-216-025-00	METAL GLAZE	220 220 100	5% 5% 5%	1/10W 1/10W 1/10W	C213 C214 C215	1-163-023-00	CERAMIC CHIP 0.0 CERAMIC CHIP 0.0 CERAMIC CHIP 0.0	15MF	10% 10% 10%	50V 50V 25V



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REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C216 C217	1-163-809-11 1-124-925-11	CERAMIC CHIP	0.047MF 2.2MF	10% 20%	25V 50V	C319 C320	1-163-038-00 1-124-477-11	CERAMIC CHIP 0.3 ELECT 47		25V 16V
C218	1-124-925-11	ELECT	2.2MF	20%	50V	C321	1-163-038-00	CERAMIC CHIP 0.		25V
C219	1-163-011-11	CERAMIC CHIP		10%	50V	C322	1-124-916-11	ELECT 221		
C220		CERAMIC CHIP		10% 20%	50V 50V	C323 C324	1-163-135-00 1-124-477-11	CERAMIC CHIP 56		50V 5 16V
C221 C222	1-124-925-11 1-124-925-11		2.2MF 2.2MF	20%	50V	C325	1-163-111-00	CERAMIC CHIP 56		50V
C223	1-136-177-00	FILM	1MF	5%	50V	C333	1-102-228-00	CERAMIC 47	OPF 10%	
C224	1-136-177-00		1MF	5%	50V	2241	1 162 077 00	CEDANTO CUID O		7-A2941B) 6 25V
C225	1-164-182-11 1-163-007-11			10% 10%	50V 50V	C341 C342	1-163-077-00 1-163-077-00	CERAMIC CHIP 0. CERAMIC CHIP 0.		
C226 C227	1-103-007-11	-	10MF	20%	50V	C343	1-164-004-11	CERAMIC CHIP 0.		
C228	1-124-907-11		10MF	20%	50V	C344	1-162-638-11	CERAMIC CHIP 1M		16V
C229	1-124-478-11		100MF	20%	25V	C345	1-164-346-11	CERAMIC CHIP 1M ELECT 22	if MF 20%	16V 50V
C230 C231	1-124-478-11 1-164-346-11		100MF	20%	25V 16V	C346 C347	1-124-916-11 1-162-638-11	CERAMIC CHIP 1M		16V
C232	1-163-009-11			10%	50V	C348	1-164-346-11	CERAMIC CHIP 1M		16V
C233	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C349	1-164-346-11	CERAMIC CHIP 1M		16V
C234	1-164-161-11		0.0022MF	10%	50V	C350	1-124-907-11		MF 209	
C235	1-130-772-00		0.22MF	5%	63V	C351	1-124-443-00	ELECT 10 CERAMIC CHIP 1M	OMF 209	10V 16V
C236 C237	1-124-618-11 1-124-618-11		2200MF 2200MF	20% 20%	35V 35V	C353 C354	1-164-346-11 1-164-346-11	CERAMIC CHIP IM		16V
C238	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	C355	1-162-638-11	CERAMIC CHIP 1M	IF	16V
C239	1-130-772-00		0.22MF	5%	63V	C356	1-164-489-11			
C240	1-124-916-11		22MF	20%	50V	C357	1-164-299-11	CERAMIC CHIP 0. CERAMIC CHIP 0.		
C241 C242	1-124-916-11 1-124-903-11		22MF 1MF	20% 20%	50V 50V	C358 C359	1-164-299-11 1-124-907-11		MF 209	
C244	1-164-346-11	CERAMIC CHIP	1MF		16V	C360	1-163-105-00	CERAMIC CHIP 33		
		V-A2941A/A2941				C361	1-163-101-00	CERAMIC CHIP 22		
	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C362 C363	1-130-772-00 1-124-907-11		.22MF 5%)MF 209	
C248	1-163-185-00	CERAMIC CHIP	150PF	5%	.2942U) 50V	C365	1-124-120-11		20MF 20	
C249	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C366	1-124-903-11	ELECT 1M		
C251	1-124-282-00	ELECT	22MF	20%	16V	C369	1-163-117-00	CERAMIC CHIP 10		
C254	1-163-133-00			5%	50V 50V	C401 C402	1-164-005-11 1-104-792-51	CERAMIC CHIP 0. ELECT 33	.47MF 20	16V 16V
C255 C256	1-163-133-00 1-163-133-00			5% 5%	50V 50V	C403	1-162-637-11			16V
C257	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C411		CERAMIC CHIP 0.		25V
C299	1-164-337-11	CERAMIC CHIP	2.2MF		16V	C412		CERAMIC CHIP 0.		25V
		CV-A2941A/A2941		2941K/A	16V	C421 C422	1-124-477-11 1-124-477-11		7MF 20' 7MF 20'	
	1-164-346-11	CERAMIC CHIP	IMF	(KV-A	10V 12941B)	C423	1-101-004-00		.01MF	50V
C301	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C424		CERAMIC CHIP 33		
C302	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C425		CERAMIC CHIP 33		
C303	1-164-337-11	CERAMIC CHIP CERAMIC CHIP	2.2MF	10%	16V 25V	C426 C427	1-124-477-11	CERAMIC CHIP 1N	7MF 20	16V
C304 C305		CERAMIC CHIP		5%	50V	C428	1-164-346-11			16V
C306		CERAMIC CHIP		5%	50V	C429	1-124-119-00	ELECT 33	30MF 20	
C307		CERAMIC CHIP		10%	50V	C574		CERAMIC CHIP 10		
C308 C309	1-163-809-11	CERAMIC CHIP CERAMIC CHIP	0.047MF	10% 10%	25V 25V	C575 C576		CERAMIC CHIP 0. CERAMIC CHIP 0.		
C310	1-163-038-00	CERAMIC CHIP	0.1MF	10%	25V	C581		CERAMIC CHIP 0.		50V
C311	1-163-038-0	CERAMIC CHIP			25V	C582	1-124-916-11	ELECT 22	2MF 20	
C312	1-124-477-13	1 ELECT	47MF	20%		C583	1-163-133-00	CERAMIC CHIP 47 CERAMIC CHIP 0	70PF 5% .001MF 10	
C313 C314	1-163-077-9	1 CERAMIC CHIP 0 CERAMIC CHIP	0.1MF		50V 25V	C585 C586		CERAMIC CHIP 0.		
C315	1-124-477-1		47MF	20%		C587	1-124-903-11		MF 20	,
C316	1-163-077-9	1 CERAMIC CHIP	0.1MF		50V	C588	1-164-346-11	CERAMIC CHIP 1		16V
C317	1-163-103-0	O CERAMIC CHIP	27PF	5%	50V	C589	1-124-478-11		00MF 20	
C318	1-163-103-0	O CERAMIC CHIP	27PF	5%	50V	C590	1-124-916-11	ELECT 22	2MF 20	\$ 50 V



The components identified by shading and marked A are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C591 C592	1-124-925-11 1-163-017-00	ELECT 2.2MF CERAMIC CHIP 0.0047MF	20% 10%	50V 50V	D311 D312 D313	8-719-914-44	DIODE DA204K DIODE DAP202K DIODE DAN202K	
C593		CERAMIC CHIP 0.0033MF	10%	50V	D314		DIODE DAN202K	
C595 C599		CERAMIC CHIP 47PF CERAMIC CHIP 0.01MF	5% 10%	50V 50V	D381	0 710 110 02	DIODE RD7.5ESB2	
C644	1-124-916-11		20%	50V	D301		DIODE MTZJ-9.1	
C681	1-124-478-11		20%	25V	D403		DIODE MTZJ-9.1	
C682	1 106 516 11	ELECT 130ME	200	1 (1)	D405		DIODE MTZJ-9.1	
C683	1-126-516-11 1-124-478-11		20% 20%	16V 25V	D406	8-719-921-69	DIODE MTZJ-9.1	
C685	1-124-478-11	ELECT 100MF	20%	25V	D407	8-719-921-69	DIODE MTZJ-9.1	
C686		CERAMIC CHIP 0.1MF	0.00	25V	D571		DIODE DA204K	
C687	1-124-916-11	ELECT 22MF	20%	50V	D681 D683		DIODE MTZN-10B DIODE DAP202K	
	< FII	LTER >			2003	0 /15 511 41	DIODE DAI 202K	
CF581	1-577-611-11	OSCILALTOR, CERAMIC				< IC	>	
01002	- 0,, 011 11	obolinizon, chiang			IC072	8-759-184-27	IC ST24C16CB1	
	< CO1	NNECTOR >			IC201		IC TDA6612-5	
CN0001	*1-568-880-51	PIN, CONNECTOR 5P					'A2941B/A2941D/A29431 IC TDA6622-5 (KY	E/A2941K) V-A2942U)
CN0101	1-695-297-11	CONNECTOR, BOARD TO BOA	RD 20P		IC202	8-759-502-21		V-R27420)
CN0103 CN0104		PLUG, CONNECTOR 8P			T00F1	0.750.070.00	70 mm10050	
CN0104	*1-568-880-51	PLUG, CONNECTOR 8P PIN, CONNECTOR 5P			IC251 IC261	8-759-072-99 8-759-072-99		
					IC301		IC TDA9145/N2B	
CN0106		PIN, CONNECTOR 5P			IC302		IC TDA4661/V2	
CN0107 CN0108		PIN, CONNECTOR 4P PIN, CONNECTOR 3P			IC304	8-752-056-54	IC CXA1587S	
CN0109	1-695-299-11	CONNECTOR, BOARD TO BOA	RD 50P		IC401	8-752-068-46	IC CXA1855S	
CN0110	*1-568-879-11	PIN, CONNECTOR 4P			IC402	8-759-073-00		
CN0113	1-695-298-11	CONNECTOR, BOARD TO BOA	ממ4 מק		IC681	8-759-072-98	IC TDA8138A SPRING, IC (IC681)	
CN0119	*1-568-879-11	PIN, CONNECTOR 4P	TID TOT		IC684		IC NJM78M09FA	
CN0127 CN0149		PLUG, CONNECTOR 6P			70605	0 550 540 50	TO THE ECO.	
CN5108		PIN, CONNECTOR 4P PLUG, CONNECTOR 10P			IC685	8-759-510-52	IC TEA/605	
	< DIC	ODE >				< IF	BLOCK >	
D068	9-710-014-44	DIODE DAP202K			IFB101	1-466-733-11	IF BLOCK (IFH-389)	(KV-A2941A/A2941D/
D069		DIODE DAP202K				1-466-735-11	IF BLOCK (IFH-389F)	A2943E/A2941K) (KV-A2941B)
D071		DIODE RD5.6ESB2				1-466-734-11	IF BLOCK (IFH-395)	(KV-A2942U)
D073 D075		DIODE RD5.6ESB2 DIODE DAN202K				< COI	L >	
D077	8-719-914-43	DIODE DAN202K			L101	1-412-546-41	INDUCTOR 5600	ти
D078		DIODE RD5.6ESB2			L102	1-408-413-00		
D079 D101		DIODE RD5.6ESB2			L201	1-407-500-00		
D206		DIODE MTZJ-33C DIODE DAN202K			L307 L309	1-408-405-00 1-408-411-00		
D207 D208	8-719-921-89	DIODE MTZJ-13C DIODE 1SS133			L575 L611	1-408-397-00 1-412-539-41		T T
D209	8-719-901-33				L681	1-412-539-41		
D210	8-719-901-33							
D211	8-719-901-33	DIODE 1SS133				< IC	LINK >	
D212 D213		DIODE 1SS133			PS681 A	1-532-605-91	LINK, IC 0.4A (ICP-	N10)
D213 D214		DIODE DAN202K DIODE DA204K			PS682 A	1-532-605-91	LINK, IC 0.4A (ICP-	MOLECULE SERVICE
D215	8-719-914-42	DIODE DA204K (KV-A2941E	3)			< TRA	NSISTOR >	
D216	8-719-914-42	DIODE DA204K (KV-A2941E	3)		0071	0 720 001 05	mnastatamon nma404	,
D301	8-719-914-43	DIODE DAN202K			Q071 Q101		TRANSISTOR DTA124EK TRANSISTOR 2SA1162-	
D304	8-719-109-89	DIODE RD5.6ESB2			Q102	8-729-901-00	TRANSISTOR DTC124EK	
D305 D306		DIODE DAN202K DIODE DAN202K			Q103		TRANSISTOR DTC114EK	
D307	8-719-914-43	DIODE DAN202K			Q201	8-729-920-74	TRANSISTOR 2SC2412K	QK
D308					Q202		TRANSISTOR 2SC2412K	
סטכע	8-719-914-42	DIODE DA204K			Q203	8-729-920-74	TRANSISTOR 2SC2412K	-QR



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	N	REMARK
Q204 Q205 Q206	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		JR139 JR140 JR141	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5% 0 5%	1/10W 1/10W 1/10W
Q207 Q209 Q210 Q303 Q304	8-729-920-74 8-729-920-74 8-729-920-74 8-729-216-22 8-729-900-53	TRANSISTOR 2SC2412K-QR		JR142 JR143 JR144 JR151 JR152	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W
Q306 Q308 Q309 Q311 Q312	8-729-216-22 8-729-216-22 8-729-931-02 8-729-901-06 8-729-900-53	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2413KQ TRANSISTOR DTA144EK		JR153 JR201 JR202 JR203 JR204	1-216-295-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/8W 1/8W 1/8W 1/8W
Q313 Q314 Q315 Q317 Q401	8-729-216-22 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		JR205 JR206 JR207 JR208 JR209	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W
Q402 Q403 Q581 Q582 Q583	8-729-920-74 8-729-920-74 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G		JR210 JR211 JR212 JR213 JR214	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/BW 1/BW 1/BW 1/BW 1/BW
Q610 Q681 Q682	8-729-140-97 8-729-109-53 8-729-900-53	TRANSISTOR 2SD795A-P		JR215 JR216 JR217 JR218	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W
	< RES	SISTOR >		JR219	1-216-296-91	METAL GLAZE	0 5%	1/8 W
JR102 JR104 JR105 JR107 JR110	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR220 JR221 JR222 JR223 JR224	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W
JR111 JR112 JR113 JR114 JR115	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR225 JR226 JR227 JR228 JR230	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W
JR116 JR117 JR118 JR119 JR120	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR231 JR232 JR233 JR234 JR235	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/iW 1/iW 1/iW 1/iW
JR121 JR122 JR123 JR125 JR126	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR236 JR237 JR238 JR240 JR241	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/IW 1/IW 1/IW 1/IW 1/IW
JR127 JR128 JR129 JR130 JR131	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR242 JR243 JR245 JR247 JR248	1-216-296-91 1-216-295-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/IW 1/IO W 1/IW 1/IW 1/IW
JR132 JR133 JR134 JR135 JR136	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	JR250 JR251 JR252 JR253 JR254	1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/kg 1/kg 1/kg 1/kg 1/kg
JR137 JR138		METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W	JR255 JR258	1-216-296-91 1-216-296-91		0 5% 0 5%	1/W 1/W

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REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION)N		REMARK
JR271	1-216-295-91		0	5%	1/10W	R252	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR272 R071	1-216-295-91 1-216-041-00	METAL GLAZE METAL GLAZE	0 470	5% 5%	1/10W 1/10W	R253 R254	1-216-073-00 1-216-252-00	METAL GLAZE METAL GLAZE	10K 180K	5% 5%	1/10W 1/8W
R072	1-216-033-00		220	5%	1/10W	R255	1-216-252-00	METAL GLAZE	180K		1/8W
R073 R074	1-216-033-00 1-216-198-91		220 1K	5% 5%	1/10W 1/8W	R256 R257	1-249-409-11 1-249-409-11		220 220	5% 5%	1/4W 1/4W
R074	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R257	1-216-089-91		47K	5%	1/4W 1/10W
R077	1-216-025-00	METAL GLAZE	100	5%	1/10W	R259	1-216-063-00	METAL GLAZE	3.9K		1/10W
R101	1-216-025-00		100	5%	1/10W	R260	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W
R102	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R293	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R103 R105	1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE	2.7K 10K	5% 5%	1/10W 1/10W	R295	1-216-295-91	METAL CLATE	0	(KV-	A2941B) 1/10W
R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W	R296	1-216-037-00	METAL GLAZE	330	5%	1/10W
										(KV-	A2941B)
R115	1-216-210-00		3.3K		1/8W	R297	1-216-027-00	METAL GLAZE	120	5%	1/10W
R201 R202	1-216-653-11 1-216-653-11		1.2K 1.2K		1/10W 1/10W					(KV-	A2941B)
R202	1-216-053-11		5.6K	5%	1/10W	R301	1-216-041-00	METAL GLAZE	470	5%	1/10W
R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W	R302	1-216-041-00		470	5%	1/10W
					4.14.4	R303	1-216-174-00		100	5%	1/8W
R205 R206	1-216-071-00 1-216-071-00		8.2K 8.2K	5% 5%	1/10W 1/10W	R304 R305	1-216-174-00 1-216-035-00		100	5%	1/8W
R207	1-216-057-00		2.2K		1/10W	K303	1-210-033-00	METAL GLAZE	270	5%	1/10W
R208	1-216-057-00		2.2K	5%	1/10W	R306	1-216-035-00	METAL GLAZE	270	5%	1/10W
R209	1-249-377-11	CARBON	0.47	5%	1/4W F	R307	1-216-075-00		12K	5%	1/10W
R210	1-247-734-11	CARBON	20	E0	1/2W	R308 R309	1-216-121-00 1-216-001-00	METAL GLAZE	1M	5%	1/10W
R211	1-247-734-11		39 39	5% 5%	1/2W 1/2W	R310	1-216-001-00		10 10	5% 5%	1/10W 1/10W
R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W		2 220 002 00			•	1/1011
R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R311	1-216-065-00		4.7K	5%	1/10W
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R312 R313	1-249-413-11 1-216-081-00		470 22K	5% 5%	1/4W 1/10W
R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R314	1-249-409-11		220	5%	1/4W
R216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R315	1-249-409-11		220	5%	1/4W
R217	1-216-045-00		680	5%	1/10W	2216	4 046 005 00		22-		4 /4 0
R218 R221	1-216-081-00 1-212-849-00	METAL GLAZE FUSIBLE	22K 4.7	5% 5%	1/10W 1/4W F	R316 R318	1-216-085-00 1-216-041-00		33K 470	5% 5%	1/10W 1/10W
Maar	1-212-047-00	POSTBEE	3.7	370	1/411 1	R319	1-249-413-11		470	5%	1/4W
R222	1-216-049-00		1K	5%	1/10W	R322	1-216-041-00	METAL GLAZE	470	5%	1/10W
R223	1-216-045-00	METAL GLAZE	680	5%	1/10W	R324	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R224 R225	1-249-433-11 1-212-849-00		22K 4.7	5% 5%	1/4W 1/4W F	R325	1-216-041-00	METAL CLAZE	470	5%	1/10W
R226	1-249-412-11		390	5%	1/4W	R326		METAL GLAZE		5%	1/10W
-005											A2941B)
R227 R228	1-216-081-00 1-216-081-00	METAL GLAZE	22K 22K	5% 5%	1/10W 1/10W	R328 R329	1-216-025-00		100 82	5% 5%	1/10W
R229	1-216-039-00		390	5%	1/10W 1/10W	R329	1-216-023-00 1-216-053-00		1.5K		1/10W 1/10W
R230	1-216-246-91	METAL GLAZE	100K		1/8W	1.000	2 220 000 00	1121112 041110		50	272011
R231	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R331	1-216-097-00		100K		1/10W
R232	1-216-081-00	METAL CLAZE	22K	5%	1/10W	R333 R334	1-216-182-00 1-216-182-00		220 220	5% 5%	1/8W 1/8W
R233	1-216-071-00		8.2K		1/10W	R336	1-216-029-00		150	5%	1/0W 1/10W
R234	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R337	1-216-041-00		470	5%	1/10W
R235 R236	1-216-073-00		10K	5%	1/10W	D220	1 916 005 00	WEEKL COLOR	070	Eo.	1 /10**
N230	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R338 R339	1-216-035-00 1-216-025-00		270 100	5% 5%	1/10W 1/10W
R237	1-216-025-00	METAL GLAZE	100	5%	1/10W	R340	1-216-025-00		100	5%	1/10W
R238	1-216-025-00	METAL GLAZE	100	5%	1/10W	R341	1-216-025-00	METAL GLAZE	100	5%	1/10W
R241 R242	1-216-065-00		4.7K		1/10W	R342	1-216-033-00	METAL GLAZE	220	5%	1/10W
R244	1-216-214-00	METAL GLAZE METAL GLAZE	4.7K 6.8K		1/8W 1/10W	R343	1-216-022-00	METAL GLAZE	75	5%	1/10W
	000					R344	1-216-022-00		75	5%	≥ 1/10W
R245		METAL GLAZE	47K	5%	1/10W	R345	1-216-171-00	METAL GLAZE	75	5%	1/8W
R246 R247	1-216-097-00 1-216-073-00		100K		1/10W 1/10W	R346 R347	1-216-022-00		75 27 v	5% 5%	1/10W
R248	1-216-073-00		10K 10K	5% 5%	1/10W 1/10W	K34/	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R249	1-216-045-00		680	5%	1/10W	R351	1-216-073-00		10K	5%	1/10W
DOEA	1 045 005 55	1mm1 * 0	00-	F0.	1 (100	R352	1-216-033-00		220	5%	1/10W
R250 R251	1-216-095-00	METAL GLAZE METAL GLAZE	82K 4.7K	5% 5%	1/10W 1/10W	R354 R355	1-216-033-00 1-216-033-00		220 220	5% 5%	1/10W 1/10W
1471	T-710-000-00	METAL GLAZE	4./K	20	T/ TOM	KSSS	1-710-033-00	METAL GLAZE	440	20	T/IOM

A IF (KV-A2941A/A2941D)

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REF.NO.	PART NO.	DESCRIPTION	N		REM	ARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R356	1-216-033-00	METAL GLAZE	220	5%	1/10W		R588	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R357	1-216-041-00	METAL GLAZE	470	5%	1/10W		R589	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R357 R358	1-216-031-00	METAL GLAZE	180	5%	1/10W		R590	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R359	1-216-033-00	METAL GLAZE	220	5%	1/10W		R591	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R360	1-216-033-00	METAL GLAZE	220		1/10W		R592	1-216-232-00	METAL GLAZE	27K	5%	1/8W	
R361	1-216-033-00	METAL GLAZE	220	5%	1/10W		R593	1-216-673-11	METAL CHIP	8.2K		1/10W	
R362	1-216-077-00	METAL GLAZE	15K	5%	1/10W		R594	1-216-663-11	METAL CHIP	3.3K		1/10W	
R366	1-216-236-11		39K	5%	1/8W		R595	1-216-643-11	METAL CHIP	470		1/10W	
R376	1-216-065-00	METAL GLAZE	4.7K		1/10W		R596	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R377	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W		R597	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R378	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R598	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R379	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W		R600	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R380	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		R616	1-216-184-00	METAL GLAZE	270	5%	1/8W	
R381	1-216-164-00	METAL GLAZE	39	5%	1/8W		R619	1-216-077-00 1-249-413-11	METAL GLAZE CARBON	15K 470	5% 5%	1/10W 1/4W	
R382	1-216-164-00	METAL GLAZE	39 39	5% 5%	1/8W 1/8W		R628 R632	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R383	1-216-164-00	METAL GLAZE		3%	•								
R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W		R681	1-216-541-00	METAL OXIDE	4.3	5% 5%	3W	F
R386	1-216-073-00	METAL GLAZE	10K 4.7K	5% 5%	1/10W 1/10W		R682 R683	1-249-415-11 1-216-073-00	CARBON METAL GLAZE	680 10K	5% 5%	1/4W 1/10W	
R387 R388	1-216-065-00 1-216-073-00	METAL GLAZE	10K	5%	1/10W		R2219	1-216-073-00	METAL GLAZE	100	5%	1/8W	
R389	1-216-071-00	METAL GLAZE	8.2K		1/10W		R2220	1-216-174-00	METAL GLAZE	100	5%	1/8W	
n200	1 216 002 00	METAL GLAZE	27K	5%	1/10W		R2221	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R390 R391	1-216-083-00 1-216-069-00	METAL GLAZE	6.8K		1/10W		R2222	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R392	1-216-061-00	METAL GLAZE	3.3K		1/10W								
R393	1-216-073-00	METAL GLAZE	10K	5%	1/10W			< TUN	IER >				
R394	1-216-081-00	METAL GLAZE	22K	5%	1/10W		TU101	1-693-185-11	minima /117/01/	Tu/			
R395	1-216-091-00	METAL GLAZE	56K	5%	1/10W		10101		A2941B/A2941		E/A2941	K)	
R396	1-216-081-00	METAL GLAZE	22K	5%	1/10W			1-693-184-11	The second secon				
R401	1-216-171-00	METAL GLAZE	75	5%	1/8W								
R402	1-216-158-00	METAL GLAZE	22	5%	1/8W			< CRY	STAL >				
R403	1-216-025-00	METAL GLAZE	100	5%	1/10W		X301	1-567-504-11	OSCILLATOR,	CRYSTAI	r.		
R404	1-216-158-00	METAL GLAZE	22	5%	1/8W		X302	1-567-505-11	OSCILLATOR,				
R405	1-216-025-00		100	5%	1/10W			******					
R406	1-216-158-00	METAL GLAZE	22	5%	1/8W		******	***********		******	****	********	****
R407 R408	1-216-025-00 1-216-093-00		100 68K	5% 5%	1/10W 1/10W			1-466-733-11	IF BLOCK (II	7H-389)	(KV-A2	9411 /2	2941n/
VACO	1-210-093-00	METAL GUAZE	OOK	J 10	1/1011			1 400 755 11	******	*****		E/A294	
R410	1-216-067-00		5.6K		1/10W				NATHOD .				
R411 R412	1-216-067-00 1-216-022-00		5.6K 75	5% 5%	1/10W 1/10W			< CAP	PACITOR >				
R413	1-216-022-00		75	5%	1/10W		C101	1-163-121-00	CERAMIC CHI	150PF		5%	50V
R414	1-216-022-00		75	5%	1/10W		C102	1-164-222-11					25V
							C103	1-164-232-11				109	50 v
R416	1-216-113-00		470K		1/10W		C104	1-164-232-11				10%	50V
R417	1-216-067-00		5.6K		1/10W		C105	1-164-004-11	CERAMIC CHI	0.1MF		109	25V
R419	1-216-113-00		470K		1/10W		0106	1-124-477-11	ELECT	47MF		209	16V
R420 R424	1-216-067-00 1-216-025-00		5.6K 100	5% 5%	1/10W 1/10W		C106 C107	1-124-4//-11				103	25V
11467	1-210-023-00	HEINE GENEE	100	3.0	1,104		C107	1-164-004-11				109	25V
R425	1-216-025-00	METAL GLAZE	100	5%	1/10W		C109	1-164-232-11				109	50V
R428	1-249-393-11		10	5%	1/4W F		C112	1-164-004-11				109	25V
R574	1-216-041-00	METAL GLAZE	470	5%	1/10W			4 444 444 44				C 0.	FA
R575	1-216-186-00		330	5%	1/8W		C113	1-164-101-00				5%	50V
R577	1-216-089-91	METAL GLAZE	47K	5%	1/10W		C114 C115	1-124-477-11 1-164-232-11		47MF		209 109	16V 50V
R578	1-216-238-91	METAL GLAZE	47K	5%	1/8W		C116	1-164-232-11				107	16V
R580	1-216-651-11		1K		1/10W		C118	1-164-004-11				109	25V
R581	1-216-033-00		220	5%	1/10W								
R582	1-216-037-00	METAL GLAZE	330	5%	1/10W		C119	1-163-369-11				5%	25V
R583	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		C121	1-163-235-11				5%	50V
DE04	1 046 000 00	WEMST CTARS	200	Eo.	1 /1 07-7		C122 C123	1-164-239-11 1-163-235-11				5% 5%	50V 50V
R584 R585	1-216-039-00 1-216-067-00		390 5.6K	5% 5%	1/10W 1/10W		C123	1-163-235-11				103	25V
R586		METAL GLAZE	820	5%	1/10W		2124	T 704 004 TT	OLIZINIC CHI			1	
R587	1-216-047-00		820	5%	1/10W		C130	1-216-295-00	METAL GLAZE	0	5%	1/1	.0w
												-	

| F (KV-A2941A/A2941D)

	(1017120102)								
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON	REMARK
C131 C133 C152 C153	1-124-477-11 1-164-337-11	CERAMIC CHIP 10PF ELECT 47MF CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF	5% 20%	50V 16V 16V 16V	Q173		TRANSISTOR 2	SC2412K-QR	
C154 C155 C156 C161 C162	1-164-337-11 1-164-232-11 1-124-477-11 1-164-117-00	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01F	10% 20% 5%	16V 50V 16V 50V 25V	JR2 JR3 JR4 JR7 JR8	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/10W
C163 C164 C165 C166 C167	1-164-346-11 1-163-141-00 1-164-232-11 1-124-477-11	CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01F	5% 10% 20% 5%	16V 50V 50V 16V 50V	JR9 JR11 JR14 JR16 JR18	1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/10W 1/10W
C168 C170 C171 C173		CERAMIC CHIP 1MF ELECT 47MF ELECT 47MF	20% 20% 20%	16V 16V 16V 16V	JR19 JR20 JR21 JR23 JR24	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W
	< FIL	TER >			JR25	1-216-296-00	METAL GLAZE	0 5%	1/8W
CF2 CF3 CF4 SWF1	1-527-840-00 1-567-570-00	FILTER, CERAMIC FILTER, CERAMIC FILTER, CERAMIC FILTER, SAWTOOTH WAVE			JR29 JR30 JR33 JR38	1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/8W 1/10W 1/10W 1/8W
	< CON	NECTOR >			JR39 JR40	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8
CN1 CN2	1-750-173-11	PIN, CONNECTOR (PC BOA	RD) 10P RD) 10P		R101 R102 R103	1-216-075-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	12K 5% 10K 5% 2.2K 5%	1/10W 1/10W 1/10W
		MMER >			R104 R106	1-216-051-00 1-216-049-00	METAL GLAZE	1.2K 5% 1K 5%	1/10W 1/10W
CT1	1-404-801-11	TRAP, CERAMIC			R107	1-216-065-00		4.7K 5%	1/10W
D161	< DIO 8-719-400-18	DE > DIODE MA152WK			R108 R110 R113 R114	1-216-065-00 1-216-041-00 1-216-031-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 5% 470 5% 180 5% 1K 5%	1/10W 1/10W 1/10W
	< IC	>			R115	1-216-027-00			1/10W 1/10W
IC1 IC2 IC3	8-759-070-76 8-759-070-71 8-759-514-54	IC TDA9820			R116 R117 R118 R119	1-216-101-00 1-216-097-00 1-216-117-00 1-216-240-00	METAL GLAZE	120 5% 150K 5% 100K 5% 680K 5% 56K 5%	1/10W 1/10W 1/10W
	< COI	L >			R120	1-216-075-00			1/8W
L101 L102 L103 L104 L121	1-408-421-00 1-408-419-00 1-408-419-00 1-408-408-00 1-408-413-00	INDUCTOR 68UH			R121 R122 R123 R124	1-216-053-00 1-216-061-00 1-216-075-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	12K 5% 1.5K 5% 3.3K 5% 12K 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L122 L142 L151 L161	1-408-420-00 1-408-790-00 1-408-419-00	INDUCTOR 82UH INDUCTOR 0.56UH			R125 R127 R130 R131 R132	1-216-041-00 1-216-047-00 1-216-049-00 1-216-025-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 820 5% 1K 5% 100 5% 6.8K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	< TRAI	NSISTOR >			R133	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W
Q101 Q102 Q121 Q122	8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G			R134 R135 R150 R151	1-216-049-00 1-216-198-00 1-216-043-00 1-216-043-00	METAL GLAZE	1K 5% 1K 5% 560 5% 560 5%	1/10W 1/8W 1/10W 1/10W
Q161 Q170 Q171 Q172	8 -729-216-22 8 -729-920-74 8 -729-920-74				R152 R153 R154 R155 R156	1-216-043-00 1-216-025-00 1-216-049-00 1-216-051-00 1-216-083-00	METAL GLAZE METAL GLAZE	560 5% 100 5% 1K 5% 1.2K 5% 27K 5%	1/10W 1/10W 1/10W 1/10W 1/10W

				К	V-A29
IF	(KV-A2941A/ KV-A2943E/	A2941D) A2941K)	IF(KV-A29) ^{41B})
REF.NO.	PART NO.	DESCRIPTION)N		REMARK
C24 C25 C26	1-164-506-11 1-124-477-11 1-164-232-11	CERAMIC CHIP ELECT CERAMIC CHIP	47MF	20% 10%	16V 16V 50V
C27 C28 C33 C34 C35	1-164-232-11 1-124-477-11 1-124-907-11 1-124-907-11 1-124-925-11	CERAMIC CHIP ELECT ELECT ELECT	0.01MF 47MF 10MF 10MF 2.2MF	10% 20% 20% 20% 20%	50V 16V 50V 50V 50V
C36 C37 C38 C40 C71	1-124-477-11 1-164-232-11 1-163-017-00 1-164-232-11 1-124-477-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.0047MF	20% 10% 10% 10% 20%	16V 50V 50V 50V 16V
C72 C80 C83 C84 C85	1-164-232-11 1-124-477-11 1-124-477-11 1-124-477-11 1-124-477-11	CERAMIC CHIP ELECT ELECT ELECT ELECT	0.01MF 47MF 47MF 47MF 47MF	10% 20% 20% 20% 20%	50V 16V 16V 16V 16V
C86 C87 C91 C95 C101	1-124-477-11 1-124-477-11 1-163-229-11 1-164-337-11 1-163-017-00	ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	2.2MF	20% 20% 5% 10%	16V 16V 50V 16V 50V
C102 C104 C105 C106 C119	1-163-017-00 1-163-017-00 1-163-017-00 1-163-017-00 1-163-369-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF 0.0047MF	10% 10% 10% 10% 5%	50V 50V 50V 50V 25V
C121 C122 C131	1-126-176-11 1-163-119-00 1-126-099-11	ELECT CERAMIC CHIE ELECT	220MF 120PF 2.2MF	20% 5% 20%	10V 50V 35V
	< FII	TER >			
CF1 CF2 CF3	1-527-839-00 1-567-569-11 1-527-840-00	FILTER, CERA	MIC		

1-416-017-21 1-416-018-21	COIT	
**********	******	******
1-466-735-11	IF BLOCK (IFH-389F) (1	KV-A2941B)
< CAP	ACITOR >	
1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
1-124-903-11	ELECT 1MF	20% 50V
1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

REMARK

1/10W

10%

10%

10%

20%

10%

20%

10%

20%

20%

10%

5%

20%

20%

10%

20%

50V

50V

50V

25V

50V

16V

50V

16V

50V

50V

16V

16V

50V

50V

50V

50V

50V

0.50% 1/10W

DESCRIPTION

METAL GLAZE

< VARIABLE RESISTOR >

1-241-121-11 RES, ADJ, CARBON 4.7K

1-163-017-00 CERAMIC CHIP 0.0047MF

CERAMIC CHIP 0.0047MF

CERAMIC CHIP 0.01MF

CERAMIC CHIP 0.001MF

22MF

47MF

47MF

1MF

0.47MF

0.47MF

1MF

1-164-232-11 CERAMIC CHIP 0.01MF

1-164-232-11 CERAMIC CHIP 0.01MF

ELECT

1-163-061-00 CERAMIC CHIP 0.015MF

1-162-638-11 CERAMIC CHIP 1MF

1-162-638-11 CERAMIC CHIP 1MF

1-164-232-11 CERAMIC CHIP 0.01MF

1-163-017-00

1-163-059-00

1-124-477-11

1-163-141-00

1-124-916-11 ELECT

1-124-477-11 ELECT

1-124-903-11 ELECT

1-124-902-00 ELECT

1-124-903-11 ELECT

1-124-902-00 ELECT

< TRANSFORMER >

1.2K 5%

5%

5%

5%

5%

5%

5%

5%

5%

5%

5%

5%

5%

5%

270K 5%

130K

470K

470K 5%

22K

1K

10K

470K

1K

27K

12K

82K

2.7K 5%

2.2K 5%

27K

12K

82K

2.7K 5%

2.2K 5%

330

330

10K

1K

PART NO.

1-216-107-00

1-216-049-00

1-216-113-00

1-216-081-00

1-216-049-00

1-216-083-00

1-216-057-00

1-216-083-00

1-216-095-00

1-216-057-00

1-216-037-00

1-216-051-00 METAL GLAZE

1-216-755-11 METAL CHIP

1-216-073-00 METAL GLAZE

1-216-113-00 METAL GLAZE

1-216-073-00 METAL GLAZE

1-216-113-00 METAL GLAZE

1-216-049-00 METAL GLAZE

1-216-075-00 METAL GLAZE

1-216-095-00 METAL GLAZE

1-216-059-00 METAL GLAZE

1-216-075-00 METAL GLAZE

1-216-059-00 METAL GLAZE

1-216-037-00 METAL GLAZE

REF.NO.

R157

R159

R160

R161

R162

R163

R164

R165

R166

R167

R168

R169

R170

R171

R172

R173

R174

R175

R176

R177

R178

R179

R180

R181

RV1

Т4 Т5

C1

C2

C3

C4

C5

C6

C7

C8

C9

C10

C11

C13

C14

C15

C16

C17

C18

C19

C20

C21

C22

C23

CT1 CT2 CV1 CV1 CV3	1-404-801-11 1-409-429-11 1-141-245-00 1-141-304-21	TRAP, CERAMIC TRAP, CERAMIC CAP, TRIMMER CAP, TRIMMER TRIMMER, CERAMIC
	< DIO	DE >
D7 D8 D9	8-719-421-57 8-719-421-57 8-719-421-57	DIODE MA73-TX DIODE MA73-TX DIODE MA73-TX

< IC >

8-759-070-75 IC M52312SP

8-759-070-71 IC TDA9820

1-567-570-11 FILTER, CERAMIC

< CONNECTOR >

< TRIMMER >

1-404-711-11

1-579-662-11 FILTER, SURFACE WAVE

1-579-660-11 FILTER, SAWTOOTH WAVE

1-750-173-11 PIN, CONNECTOR (PC BOARD) 101

1-750-173-11 PIN, CONNECTOR (PC BOARD) 10

SAWF

IC1

CF4

SWF1 SWF3

SWF4

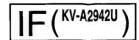
CN1

CN2

IF(KV-A2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON	REMARK
IC3	8-759-979-62	IC PCF8574		R39 R40	1-216-089-00 1-216-049-00	METAL GLAZE		5% 1/10W 5% 1/10W
	< CO1	IT >		R42	1-216-061-00	METAL GLAZE	3.3K 5	5% 1/10W
L1	1-408-419-00	INDUCTOR 68UH		R43 R44	1-216-067-00 1-216-027-00		5.6K 5	5% 1/10W 5% 1/10W
L2 L3	1-408-419-00							-,
L4	1-408-407-00 1-408-419-00			R45 R46	1-216-041-00 1-216-031-00			5% 1/10W 5% 1/10W
L5	1-408-419-00			R47	1-216-075-00	METAL GLAZE	I2K 5	% 1/10W
L7	1-408-406-00	INDUCTOR 5.6UH		R48 R49	1-216-081-00 1-216-049-00			% 1/10W % 1/10W
L9 L71	1-408-419-00							
L101	1-408-419-00 1-408-399-00			R53 R54	1-216-082-00 1-216-043-00	METAL GLAZE		% 1/10W % 1/10W
L121	1-408-407-00	INDUCTOR 6.8UH		R55	1-216-043-00	METAL GLAZE	560 5	% 1/10W
	< TRA	ANSISTOR >		R56 R57	1-216-065-00 1-216-065-00			% 1/10W % 1/10W
Q1	9-729-907-06	TRANSISTOR BF199-AMMO						
Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR		R58 R59	1-216-041-00 1-216-043-00			% 1/10W % 1/10W
Q5 Q6	8-729-115-10 8-729-900-52			R60	1-216-043-00	METAL GLAZE	560 5	% 1/10W
Q7	8-729-216-22			R61 R63	1-216-295-00 1-216-043-00			% 1/10W % 1/10W
Q8	9-720-020-74	TRANSISTOR 2SC2412K-QR						
Q10	8-729-920-74	TRANSISTOR 2SC2412K-QR		R71 R72	1-216-079-00 1-216-079-00			% 1/10W % 1/10W
Q11 Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R73	1-216-049-00	METAL GLAZE	1K 5	% 1/10W
Q13	8-729-920-74			R74 R75	1-216-079-00 1-216-079-00		18K 5	
Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR		R76	1-216-025-00			
Q15	8-729-920-74	TRANSISTOR 2SC2412K-QR		R77	1-216-025-00	METAL GLAZE	100 5°	
Q16 Q101	8-729-216-22 8-729-104-80			R81 R82	1-216-095-00	METAL GLAZE	82K 5	% 1/10W
Q121	8-729-920-74			R83	1-216-121-00 1-216-025-00	METAL GLAZE METAL GLAZE	1M 59	
	< RES	SISTOR >		R84	1-216-085-00	METAL GLAZE	33K 5	% 1/10W
JR2			4 /4 0	R85	1-216-085-00	METAL GLAZE	33K 59	% 1/10W
JR3	1-216-295-00 1-216-296-00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W	R86 R87	1-216-689-00 1-216-095-00		39K 59	
JR5	1-216-296-00	METAL GLAZE 0 5%	1/8W	R88	1-216-095-00		82K 59	•
R1	1-216-025-00		1/10W	R89	1-216-095-00	METAL GLAZE	82K 59	% 1/10W
R2 R3	1-216-065-00 1-216-065-00	METAL GLAZE 4.7K 5% METAL GLAZE 4.7K 5%	1/10W 1/10W	R90 R91	1-216-075-00	METAL GLAZE	12K 59	% 1/10W
R4	1-216-041-00	METAL GLAZE 470 5%	1/10W	R92	1-216-295-00 1-216-075-00	METAL GLAZE	0 59 12K 59	
R5	1-216-021-00	METAL GLAZE 68 5%	1/10W	R93	1-216-075-00	METAL GLAZE	12K 59	
R6	1-216-055-00		1/10W	R94	1-216-059-00		2.7K 59	6 1/10W
R8 R9	1-216-051-00 1-216-069-00		1/10W 1/10W	R95 R96	1-216-059-00 1-216-059-00	METAL GLAZE METAL GLAZE	2.7K 59	
R10	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R97	1-216-057-00	METAL GLAZE	2.7K 5% 2.2K 5%	
R11	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R98	1-216-057-00	METAL GLAZE	2.2K 5%	6 1/10W
R24 R25	1-216-280-00		1/8W	R99	1-216-057-00	METAL GLAZE	2.2K 5%	
R26	1-216-057-00 1-216-061-00		1/10W 1/10W	R100 R102	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5%	
R27	1-216-266-00	METAL GLAZE 680K 5%	1/8W	R103	1-216-063-00	METAL GLAZE	3.9K 5%	
R28	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R104	1-216-049-00	METAL GLAZE	1K 5%	6 1/10W
R29 R30	1-216-035-00		1/10W	R105	1-216-033-00	METAL GLAZE	220 5%	
R31	1-216-049-00 1-216-017-00		1/10W 1/10W	R121 R122	1-216-073-00 1-216-065-00	METAL GLAZE	10K 5% 4.7K 5%	
R32 R33	1-216-043-00	METAL GLAZE 560 5%	1/10W	R123	1-216-041-00	METAL GLAZE	470 5%	1/10W
	1-216-037-00		1/10W	R124	1-216-041-00	METAL GLAZE	470 5%	s 1/10W
R34 R35	1-216-252-00 1-216-035-00	METAL GLAZE 180K 5%	1/8W	R125	1-216-041-00	METAL GLAZE	470 5%	
R36	1-216-029-00	METAL GLAZE 150 5%	1/10W 1/10W	R301 R302	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5% 1K 5%	
R37 R38	1-216-049-00	METAL GLAZE IK 5%	1/10W	R303	1-216-049-00	METAL GLAZE	1K 5%	1/10W
	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R304	1-216-037-00	METAL GLAZE	330 5%	1/10W

IF(KV-A2941B)



REF.NO.	PART NO.	DESCRIPTION	REMAR	K REF.NO.	PART NO.	DESCRIPTION		REMARK
R305	1-216-049-00		1/10W		< CON	NECTOR >		
R306 R307	1-216-025-00 1-216-037-00		1/10W 1/10W	CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD	10P
R308	1-216-037-00		1/10W	CN2		PIN, CONNECTOR (
	< VAF	IABLE RESISTOR >			< TRI	MMER >		
RV2	1-241-120-11	RES, ADJ, CARBON 2.2K		CT1	1-409-333-00	TRAP, CERAMIC (6	.OMHZ)	
		NSFORMER >			< DIC	DDE >		
				D1.61				
T1 T3	1-404-806-21 1-416-012-11			D161	8-719-400-16	DIODE MA152WK		
т4 Т5	1-416-012-11 1-402-720-11				< IC	>		
		'STAL >		IC1 IC3	8-759-070-76 8-759-514-54			
				100				
X1		VIBRATOR, CERAMIC			< COI			•
******	***********	********	********	*** L101 L102	1-408-414-00 1-408-419-00			
	1-466-734-11	IF BLOCK (IFH-395) (KV-	-A2942U)	L103	1-408-419-00	INDUCTOR 68UH		
		***********		L104 L105	1-408-406-00 1-408-410-00			
	< CAI	PACITOR >						
C101	1_163_239_11	CERAMIC CHIP 33PF	5% 50V	L142 L161	1-408-790-41 1-408-419-00			
C102	1-164-222-11	CERAMIC CHIP 0.22MF	25V					
C103 C104	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01F	10% 50V 10% 50V		< TRA	ANSISTOR >		
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q101		TRANSISTOR 2SC24		
C106	1-124-477-11	ELECT 47MF	20% 16V	Q102 0122	8-729-216-22 8-729-216-22	TRANSISTOR 2SA11 TRANSISTOR 2SA11	.62-G .62-G	
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q161	8-729-216-22	TRANSISTOR 2SA11	.62-G	
C108 C109	1-164-004-11 1-164-232-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01F	10% 25V 10% 50V	Q172	8-729-920-74	TRANSISTOR 2SC24	12K-QK	
C112	1-164-004-11		10% 25V	Q173	8-729-920-74	TRANSISTOR 2SC24	12K-QR	
C113	1-164-101-00	CERAMIC CHIP 22PF	5% 50V		< RES	SISTOR >		
C114	1-124-477-11		20% 16V 10% 50V	JR1	1-216-296-00	METAL GLAZE 0	5%	1/IW
C115 C116	1-164-232-11 1-164-346-11		16V	JR2	1-216-295-00	METAL GLAZE 0	5%	1/: OW
C118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	JR3 JR4	1-216-296-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/1 W 1/1 O W
C119		CERAMIC CHIP 47PFF	5% 25V	JR7		METAL GLAZE 0	5%	1/:OW
C122 C130	1-163-093-11	CERAMIC CHIP 10PF METAL GLAZE 0 55	5% 50V % 1/10W	JR8	1-216-295-00	METAL GLAZE 0	5%	1/: O W
C131	1-163-224-11	CERAMIC CHIP 7PF	0.25PF 50V	JR9	1-216-296-00	METAL GLAZE 0	5%	1/W
C133	1-124-477-11	ELECT 47MF	20% 16V	JR10 JR11		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/IW 1/IW
C161	1-164-117-00	CERAMIC CHIP 100PF	5% 50V	JR12		METAL GLAZE 0	5%	1/\W
C162 C163		CERAMIC CHIP 0.22MF CERAMIC CHIP 1MF	25V 16V	JR13	1-163-093-00	CERAMIC CHIP 10)PF	5% 50V
C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR14	1-216-296-00	METAL GLAZE 0	5%	1/iW
C165	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V	JR16 JR18		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/1 O W 1/1 O W
C166	1-124-477-11	ELECT 47MF	20% 16V	JR19		METAL GLAZE 0	5%	1/W
C167 C168	1-163-213-00	CERAMIC CHIP 0.0022MF CERAMIC CHIP 1MF	5% 50V 16V	JR20	1-216-296-00	METAL GLAZE 0	5%	1/W
C170	1-124-477-11	ELECT 47MF	20% 16V	JR21	1-216-296-00	METAL GLAZE 0	5%	1/W
C171	1-124-477-11	ELECT 47MF	20% 16V	JR23 JR24		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/W 1/W
C173	1-124-477-11	ELECT 47MF	20% 16V	JR25		METAL GLAZE 0	5%	1/W
	< FI	LTER >		JR29		METAL GLAZE 0	5%	1/W
CD1				JR30 JR33		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/1 /0 W 1/1 /0 W
CD1 CF1		DISCRIMINATOR, CERAMIC FILTER, CERAMIC		JR38	1-216-296-00	METAL GLAZE 0	5% 5%	1/10
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE		JR39	1-710-730-00	METAL GLAZE 0	2%	1/100

IF	(KV-A2942U)) M2	2							
REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
JR40 JR41 JR42 JR101	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/10W			M2 BOARD, COMPLETE		
R101	1-216-235-00		12K	5% 5%	1/10W 1/10W	0001		PACITOR >		A
R102 R103 R104 R105		METAL GLAZE METAL GLAZE METAL GLAZE	680 2.2K 1.2K 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C001 C004 C007 C008 C010	1-163-117-00 1-164-222-11 1-163-117-00 1-163-117-00 1-163-117-00	CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF	5% 5% 5% 5%	50V 25V 50V 50V 50V
R106 R107 R108 R110 R112	1-216-049-00 1-216-065-00 1-216-065-00 1-216-041-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 4.7K 470 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C011 C012 C014 C016 C017	1-163-117-00 1-163-117-00 1-163-117-00 1-163-141-00 1-164-222-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 25V
R113 R114 R115 R116 R117	1-216-031-00 1-216-049-00 1-216-031-00 1-216-101-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	180 1K 180 150K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C018 C019 C020 C022 C023	1-164-505-11 1-124-916-11 1-163-117-00 1-164-004-11 1-164-004-11	ELECT 22MF CERAMIC CHIP 100PF	20% 5% 10% 10%	16V 50V 50V 25V 25V
R118 R119 R120 R121 R122	1-216-117-00 1-216-240-00 1-216-075-00 1-216-053-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	680K 56K 12K 1.5K 3.3K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C024 C025 C026 C032 C035	1-164-004-11 1-164-222-11 1-164-222-11 1-163-117-00 1-163-033-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF CERAMIC CHIP 0.022MF	10% 5%	25V 25V 25V 50V 50V
R123 R130 R131 R132 R133	1-216-061-00 1-216-049-00 1-216-025-00 1-216-069-00 1-216-061-00	METAL GLAZE	3.3K 1K 100 6.8K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C036 C037 C039 C042 C044	1-163-117-00 1-163-011-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 100PF CERAMIC CHIP 0.0015MF CERAMIC CHIP 1MF CERAMIC CHIP 100PF	5% 10% 5%	25V 50V 50V 16V 50V
R134 R135 R153 R159 R160	1-216-049-00 1-216-198-00 1-216-025-00 1-216-107-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 100 270K 1K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C522 C523 C524 C525 C528	1-163-141-00 1-163-141-00 1-163-113-00 1-164-222-11 1-163-105-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 68PF	5% 5% 5%	50V 50V 50V 25V 50V
R161 R162 R163 R164 R165	1-216-755-11 1-216-073-00 1-216-113-00 1-216-113-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	130K 10K 470K 470K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C529 C541 C542 C543 C544	1-163-037-11 1-164-161-11	CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.0022MF	5% 10% 10% 10% 10%	50V 50V 25V 50V 50V
R166 R167 R168 R169 R175	1-216-049-00 1-216-073-00 1-216-113-00 1-216-049-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 470K 1K 27K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C546 C547 C549 C550 C559	1-163-020-00 1-163-989-11 1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	10% 10% 10% 5% 10%	25V 50V 25V 50V 25V
R176 R177 R178 R179 R181	1-216-075-00 1-216-095-00 1-216-059-00 1-216-057-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	12K 82K 2.7K 2.2K 330		1/10W 1/10W 1/10W 1/10W 1/10W	C560 C563 C564 C565 C566	1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10%	50V 50V 50V 50V 50V
	< VAR	TABLE RESISTOR	l >			C567 C568	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
RV1		RES, ADJ, CAR	BON 4.7	7K		C569 C570	1-164-161-11 1-162-568-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.33MF	10% 10% 10%	50V 50V 16V
Т4		NSFORMER >				C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
T4 T5	1-416-017-21 1-416-018-21					C2002 C2004 C2005 C2008 C2016	1-164-222-11 1-163-038-00 1-164-222-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	5%	50V 25V 25V 25V 25V
						C2017		CERAMIC CHIP 0.22MF		25V



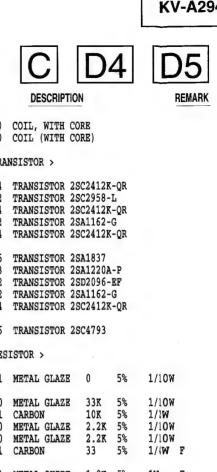
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	1		REM	IARK
NET.NO.	FAII IIV.	DECOMM NOW									
C2018	1-164-505-11	CERAMIC CHIP 2.2MF		16V	R010	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
C2019	1-124-916-11		20%	50V	R011	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
C2020	1-164-222-11	CERAMIC CHIP 0.22MF		25V	R012	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
C2021	1-163-113-00		5%	50V							
					R014	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
C2024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	R016	1-216-045-00		680	5%	1/10W	
C2025		CERAMIC CHIP 100PF	5%	50V	R017	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
C2027	1-164-222-11	CERAMIC CHIP 0.22MF		25V	R018	1-216-041-00		470 1K	5% 5%	1/10W 1/10W	
					R020	1-216-049-00	METAL GLAZE	IV	2%	T/TOM	
	< FII	TER >			R021	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
ap.0.01	1 570 106 11	VIBRATOR, CERAMIC			R023	1-216-025-00		100	5%	1/10W	
CD001	1-3/9-120-11	VIBRATOR, CERAPITC			R024	1-216-049-00		1K	5%	1/10W	
	< CON	NECTOR >			R025	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	(001	MECTOR /			R026	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
CN1413	1-695-301-11	CONNECTOR, BOARD TO BOA	ARD 40P								
CN1426	*1-568-881-51	PIN, CONNECTOR 6P			R027	1-216-049-00		1K	5%	1/10W	
CN1432		PIN, CONNECTOR 7P			R028	1-216-677-11		12K		1/10W	
					R030	1-216-049-00		1K	5%	1/10W	
	< DIC	DDE >			R032	1-216-049-00		1K	5%	1/10W	
					R033	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
D001		DIODE MA3039H-TX			D024	1-216-057-00	MEMAI CLACE	2.2K	5%	1/10W	
D2001	8-719-036-58	DIODE MA3030-H(TX)			R034	1-216-057-00		2.2K	5%	1/LOW	
D2003		DIODE DAP202K			R035 R038	1-216-073-00		10K	5%	1/10W	
D2007	8-719-914-44	DIODE DAP202K			R049	1-216-049-00		1K	5%	1/10W	
	< IC				R050	1-216-073-00		10K	5%	1/10W	
	(10	,			1.030						
IC001	8-759-168-52	IC SDA30C162-GEG			R051	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
IC561		IC CXD2018Q			R052	1-216-073-00	METAL GLAZE	10K	5%	1/LOW	
IC562	8-759-998-98				R053	1-216-065-00	METAL GLAZE	4.7K		1/1 OW	
IC563	8-759-708-05	IC NJM78L05A			R054		METAL GLAZE	22K	5%	1/L OW	
IC2002	8-759-262-58	IC SDA5273P-C22-GEG			R055	1-216-081-00	METAL GLAZE	22K	5%	1/L OW	
					- 4 4 7	4 04 6 040 00		5.00	F0.	1 // 01/	
	< CO	IL >			R067	1-216-043-00	METAL GLAZE METAL GLAZE	560 560	5% 5%	1/LOW 1/LOW	
		1007			R068	1 216 027 00	METAL GLAZE	330	5%	1/L OW	
L001	1-408-421-00				R069 R071	1-216-037-00	METAL GLAZE	1K	5%	1/8W	
L561	1-408-409-00				R535	1-216-057-00	METAL GLAZE	2.2K		1/L OW	
L562 L563	1-408-409-00 1-408-947-00				K555	1 210 037 00	MILITE CHIEL	2121	•	-/	
L2001	1-410-674-31				R536	1-216-057-00	METAL GLAZE	2.2K	5%	1/L OW	
12001	1-410-014-21	INDOCTOR 0201			R538		METAL GLAZE	100	5%	1/LOW	
	< TR	ANSISTOR >			R539	1-216-657-11	METAL CHIP	1.8K	0.50%		
					R541	1-216-049-00	METAL GLAZE	1K	5%	1/L OW	
Q002	8-729-216-22	TRANSISTOR 2SA1162-G			R542	1-216-025-00	METAL GLAZE	100	5%	1/L OW	
Q003		TRANSISTOR 2SC2412K-QR				4 046 005 00		22**	F0.	1.074	
Q564	8-729-216-22				R544		METAL GLAZE	33K	5% 5%	1/L OW 1/L OW	
Q565	8-729-920-74				R545		METAL GLAZE	220 3.3K		1/L OW	
Q566	8-729-920-74	TRANSISTOR 2SC2412K-QR			R546 R547	1-216-651-11	METAL GLAZE	1K		1/L OW	
0567	0 710 001 01	MDANGTOMOD DWG144PK			R551	1-216-049-00		1K	5%	1/L OW	
Q567 Q2001	8-729-901-01 8-729-920-74				KJJI	1 210 043-00	OHACH		30	-,,-	
Q2001 Q2002	8-729-920-74				R552	1-216-097-00	METAL GLAZE	100K	5%	1/L OW	
Q2002	8-729-216-22				R553	1-216-085-00		33K	5%	1/L OW	
Q2004	8-729-920-74				R559	1-216-049-00	METAL GLAZE	1K	5%	1/L 0W	
22001	0 723 320 72				R560	1-216-073-00	METAL GLAZE	10K	5%	1/L OW	
Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR			R564	1-216-091-00	METAL GLAZE	56K	5%	1/L 0W	
Q2006	8-729-901-01	TRANSISTOR DTC144EK								4 . 0	
Q2008	8-729-901-00	TRANSISTOR DTC124EK			R565	1-216-065-00		4.7K		1/L 0W	
					R566	1-216-073-00		10K	5%	1/L 0W	
	< RE	SISTOR >			R567	1-216-085-00	METAL GLAZE	33K	5%	1/L 0W 1/L 0W	
T	4 446 665 64	ammar gramm A FA	. 41	1 014	R568 R570	1-216-109-00 1-216-049-00		330K 1K	5% 5%	1/L 0W	
JR553	1-216-295-91	METAL GLAZE 0 5%	1/	10W	K5/0	1-210-049-00	METAD GLAZE	TV	2.0	1/1 011	
B001	1 116 016 00	METAL GLAZE 100 5%	1/	10W	R2001	1-216-065-00	METAL GLAZE	4.7K	5%	1/L 0W	
R001 R002	1-216-025-00 1-216-025-00			10W	R2001	1-216-043-00		560	5%	1/L 0W	
R002	1-216-049-00			10W	R2003	1-216-065-00		4.7K		1/L 0W	
R004	1-216-049-00			10W	R2004	1-216-037-00		330	5%	1/L 0W	
R005	1-216-295-91			10W	R2005	1-216-041-00		470	5%	1/L 0W	
	_ 2.0 250 51										
R007	1-216-073-00			10W	R2007	1-216-073-00		10K	5%	1/L OW	
R008	1-216-049-00		1/	10W	R2008	1-216-025-00	METAL GLAZE	100	5%	1/L 0W	



The components identified by shading and marked A are critical for safety.

Replace only with the part number specified.

PART NO. DESCRIPTION REMARK REFAME PART NO. REMARK PART NO. REMARK REFAME REMARK REFAME REMARK REFAME REMARK REFAME REMARK														
### PACIDIT 1-126-075-00 METAL GLAZE 2.XE 50 1/10W #### PACID 1-126-075-00 METAL G	REF.NO.	PART NO.	DESCRIPTIO	N .			REMARK	REF.NO.	PART NO.	DESCRIPT	ION			REMARK
1-216-097-00 NUTLAL GLAZE 2.7K \$4 1/100 COLL									< CF	T SOCKET >				
2014 1-26-631-11 METAL CRIP 150 0.508 1/10W 1703 1-440-667-31 METAL CRIP 150 0.508 1/10W 1705 1-440-667-31 METAL CRIP 1/10W	R2011							J701 2	1-526-990-21	Socket, Crt				
### 2017 1-216-631-1 METAL CRIP 150 0.50% 1/10%		1-216-631-11	METAL CHIP						< CC	IL >				
A	R2017	1-216-631-11 1-216-081-00	METAL CHIP METAL GLAZE	150 22K	0.50% 1 5% 1	/10W /10W	ī ī	L703 L705	1-408-609-41 1-408-609-41	INDUCTOR INDUCTOR	33t 33t	JH JH		
R2030	R2020 R2021 R2025	1-216-057-00 1-216-057-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 3.9K	5% 1 5% 1 5% 1	/10W /10W /10W		Q701	< TR 8-729-906-70	ANSISTOR >	BF871	n		
R2039 1-216-041-00 METAL GLAZE 16 17 10 17 18 17 19 17 18 17 19 19 19 19 19 19 19	R2030 R2032 R2033	1-216-295-91 1-216-049-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 1K 0	5% 1 5% 1 5% 1	/10W /10W /10W		Q703 Q704 Q705	8-729-906-70 8-729-906-70 8-729-906-70	TRANSISTOR I	BF871 BF871 BF871			
R2041 1-249-409-11 CARBON 220 5% 1/4W	R2037 R2039	1-216-049-00 1-216-041-00	METAL GLAZE	1K 470	5% 1, 5% 1,	/10W /10W		Q707 Q708 Q709	8-729-200-17 8-729-200-17 8-729-200-17	TRANSISTOR : TRANSISTOR : TRANSISTOR :	2SA1091 2SA1091	-0		
CRYSTAL								Q710	8-729-920-74					
A-1638-042-A C BOARD, COMPLETE **CAPACITOR >		< CRY	/STAL >					Q712	8-729-920-74	TRANSISTOR 2	SC2412	K-QR		
*A-1638-042-A C BOARD, COMPLETE	X2001	1-579-965-21	VIBRATOR, CRY	STAL					8-729-255-12	TRANSISTOR 2	SC2551	-0		
CAPACITOR > R701 1-202-848-00 SOLID 680K 10% 1/2W R702 1-202-838-00 SOLID 100K 20% 1/2W R703 1-202-848-00 ELECT 4.7WF 20% 250V R704 1-202-842-11 SOLID 20% 10% 1/2W R708 1-62-115-00 CERAMIC G80PF 10% 50V R706 1-216-398-11 METAL OXIDE 5.6 5% 3W F709 1-163-005-11 CERAMIC CHIP 470PF 10% 50V R706 1-216-398-11 METAL OXIDE 5.6 5% 3W F709 1-163-005-11 CERAMIC CHIP 470PF 10% 50V R706 1-216-398-11 METAL OXIDE 5.6 5% 3W F709 1-249-421-11 CARBON 2.2K 5% 1/4W R708 1-249-421-11 CARBON 2.2K	******	*********	*********	*****	******	***	*****		< RE	SISTOR >				
C701		*A-1638-042-A	C BOARD, COMP	LETE ****						METAL GLAZE METAL GLAZE	-			
C703		< CAP	ACITOR >										1/2W	
C709	C703 C705 C708	1-123-946-00 1-162-116-00 1-163-197-00	ELECT CERAMIC	4.7MF 680PF	20% 10%	6	250V 2KV	R703 R704	1-202-838-00 1-202-842-11	SOLID SOLID	100K 220K	20% 10%	1/2W 1/2W	
C714	C710 C711	1~163-005-11 1-101-880-00	CERAMIC CHIP CERAMIC CHIP CERAMIC	470PF 470PF 47PF	10% 10% 5%	ó	50V 50V 50V	R707 R708 R709	1-249-421-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON	2.2K 2.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W	
COUNTIECTOR		1-163-121-00	CERAMIC CHIP	150PF	5%		50V	R711	1-202-820-11	SOLID				•
CONNECTOR > R715 1-202-820-11 SOLID 1.5K 20% 1/2W CN0002 1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P CN0403 1-564-511-11 PLUG, CONNECTOR 8P CN0421 1-508-768-00 PIN, CONNECTOR (5MM PITCH) 6P CN0421 1-249-417-11 CARBON 1K 5% 1/4W F CN0421	C716	1-124-478-11	ELECT	100MF	20%	i .	25V	R713	1-202-820-11	SOLID	1.5K	20%	1/2W	
CN0403		< CON	NECTOR >					R715	1-202-820-11	SOLID				•
D701 8-719-901-33 DIODE 1SS133 R724 1-249-417-11 CARBON 1K 5% 1/4W F D702 8-719-901-33 DIODE 1SS133 R725 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W D703 8-719-901-33 DIODE 1SS133 R726 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W D704 8-719-901-33 DIODE 1SS133 R727 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W D705 8-719-901-33 DIODE 1SS133 R728 1-216-037-00 METAL GLAZE 330 5% 1/10W D706 8-719-901-33 DIODE 1SS133 R728 1-216-037-00 METAL GLAZE 330 5% 1/10W D707 8-719-901-33 DIODE 1SS133 R730 1-216-037-00 METAL GLAZE 330 5% 1/10W D708 8-719-901-33 DIODE 1SS133 R730 1-216-037-00 METAL GLAZE 330 5% 1/10W D709 8-719-901-33 DIODE 1SS133 R731 1-216-017-00 METAL GLAZE 47 5% 1/10W D710 8-719-901-33 DIODE 1SS133 R732 1-216-017-00 METAL GLAZE 47 5% 1/10W D710 8-719-901-33 DIODE 1SS133 R733 1-216-017-00 METAL GLAZE 47 5% 1/10W D713 8-719-901-33 DIODE 1SS133 R733 1-216-017-00 METAL GLAZE 47 5% 1/10W	CN0403	1-564-511-11 1-508-768-00	PLUG, CONNECTO	OR 8P				R717 R718 R720	1-249-405-11 1-247-700-11 1-249-417-11	CARBON CARBON CARBON	100 100 1K	5% 5% 5%	1/4W 1/4W 1/4W	F F
D702 8-719-901-33 DIODE 1SS133 R725 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R726 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R727 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R727 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R728 1-216-037-00 METAL GLAZE 330 5% 1/10W R730 1-216-037-00 METAL GLAZE 330 5% 1/10W R730 1-216-037-00 METAL GLAZE 330 5% 1/10W R730 1-216-037-00 METAL GLAZE 330 5% 1/10W R731 1-216-017-00 METAL GLAZE 47 5% 1/10W R733 1-216-017-00 METAL	D701										1K	5%	1/4W	F
D707 8-719-901-33 DIODE 1SS133 R730 1-216-037-00 METAL GLAZE 330 5% 1/10W D708 8-719-901-33 DIODE 1SS133 R730 1-216-017-00 METAL GLAZE 47 5% 1/10W D710 8-719-901-33 DIODE 1SS133 R732 1-216-017-00 METAL GLAZE 47 5% 1/10W D710 8-719-901-33 DIODE 1SS133 R733 1-216-017-00 METAL GLAZE 47 5% 1/10W D713 8-719-901-33 DIODE 1SS133 R733 1-216-017-00 METAL GLAZE 47 5% 1/10W D713 R733 1-216-017-00 METAL GLAZE 47 5% 1/10W	D702 D703 D704	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133					R725 R726 R727	1-216-067-00 1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5.6K 5.6K	5% 5% 5%	1/10W 1/10W 1/10W	
7713 8-710 000 02 PYORE CROSS	D707 D708 D709	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133					R730 R731 R732	1-216-037-00 1-216-017-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 47 47	5% 5% 5%	1/10W 1/10W 1/10W	
	D713													



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	DN		REMARK
R735 R738 R739 R740	1-216-049-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE 100 5 METAL GLAZE 100 5	% 1/10W % 1/10W % 1/10W % 1/10W	ī ī	L1843 L1852	1-459-104-00 1-459-390-00 < TRA	COIL, WITH COIL (WITH COIL (WITH COIL)			
R741 R742 R743 R747 R749	1-216-089-91 1-216-029-00 1-249-434-11 1-216-489-11 1-216-490-11	METAL GLAZE 150 5 CARBON 27K 5 METAL OXIDE 27K 5	% 1/10W % 1/10W % 1/4W % 3W % 3W		Q1840 Q1841 Q1851 Q1854 Q1855	8-729-920-74 8-729-195-82 8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2	SC2958-L SC2412K-QR SA1162-G		
R751 R753 R758 R759 R760	1-215-926-00 1-216-073-00 1-249-419-11 1-249-419-11 1-249-419-11	METAL GLAZE 10K 5 CARBON 1.5K 5 CARBON 1.5K 5	% 1/4W	F	Q1856 Q1857 Q1858 Q1859 Q1860	8-729-017-05 8-729-122-03 8-729-920-92 8-729-216-22 8-729-920-74	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1220A-P SD2096-EF SA1162-G		
	< VAI	RIABLE RESISTOR >			Q1861	8-729-017-06	TRANSISTOR 2	SC4793		
RV701		RES, ADJ, METAL GLAZE				< RES	ISTOR >			
RV702		RES, ADJ, METAL FILM			JR1851	1-216-295-91	METAL GLAZE	0 5%	1/10W	ī
*****		D4 BOARD, COMPLETE	*****	****	R1841 R1842 R1843 R1844	1-260-111-11 1-216-057-00 1-216-057-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	33K 5% 10K 5% 2.2K 5% 2.2K 5%	1/10W 1/2W 1/10W 1/10W	i i
	< CA	PACITOR >			R1847	1-249-399-11	CARBON	33 5%	1/{ W	F
C1841 C1844 C1845 C1851 C1854	1-137-371-11 1-106-383-00 1-130-785-11 1-126-103-11 1-124-477-11	MYLAR 0.047MF MYLAR 0.47MF ELECT 470MF	5% 5% 10% 20% 20%	50V 200V 100V 16V 16V	R1848 R1849 R1852 R1853 R1854	1-216-434-11 1-260-111-11 1-216-089-91 1-216-691-11 1-216-073-00	METAL OXIDE CARBON METAL GLAZE METAL CHIP METAL GLAZE	1.8K 5% 10K 5% 47K 5% 47K 0.50 10K 5%	1W 1/1W 1/10W % 1/10W 1/10W	1
C1855 C1858 C1859 C1860 C1861	1-164-232-11 1-163-275-11 1-163-275-11 1-163-989-11 1-163-989-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.033MF	10% 5% 5% 10% 10%	50V 50V 50V 25V 25V	R1860 R1861 R1862 R1863 R1873	1-216-021-00 1-216-073-00 1-216-055-00 1-218-758-11 1-216-474-11	METAL GLAZE METAL GLAZE METAL CHIP METAL OXIDE	68 5% 10K 5% 1.8K 5% 180K 0.50 82 5%	1/lOW 1/lOW 1/lOW % 1/lOW 3W	ī ī
C1862 C1863 C1867 C1892	1-124-006-11 1-136-104-00 1-126-103-11 1-163-989-11	FILM 0.16MF	20% 5% 20% 10%	25V 200V 16V 25V	R1875 R1877 R1878 R1881 R1882	1-216-683-11 1-216-097-00 1-260-091-11 1-260-091-11 1-215-869-11	METAL CHIP METAL GLAZE CARBON CARBON METAL OXIDE	22K 0.50 100K 5% 220 5% 220 5% 1K 5%	% 1/10W 1/10W 1/1W 1/1W 1/1W	
	< CO	NNECTOR >			R1893	1-216-474-11	METAL OXIDE	82 5%	3W	F
CN1823 CN1841 CN1842	*1-568-878-51 1-508-784-00	CONNECTOR, BOARD TO PIN, CONNECTOR 3P PIN, CONNECTOR (5MM P			R1894 R1895 R1898 R1899	1-216-073-00 1-216-097-00 1-216-037-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 100K 5% 330 5% 330 5%	1/IOW 1/IOW 1/IOW 1/IOW	i i
	< DI	ODE >				< VAF	RIABLE RESISTO	R >		
D1840 D1841 D1856 D1867	8-719-914-43	DIODE EL1Z DIODE DAN202K DIODE DAN202K DIODE ERA85-009			RV1851 RV1853		RES, ADJ, CE RES, ADJ, CA			
D1868		DIODE ERA85-009				< TRA	NSFORMER >			
D1882 D1883		DIODE RD5.6ESB2 DIODE RD5.6ESB2			T1851	1-423-786-11	TRANSFORMER,	·		******
	< IC	: >			2					
IC1851 IC1852 IC1853	8-759-135-80	IC NJM78L05A IC UPC358C IC SN74LS221N				*A-1640-109-A	D5 BOARD, CO ************************************			
					C803		CERAMIC CHIP	0 0022ME	5%	50v
L1841		IL > COIL, DYNAMIC CONVERS:	ION CHOKE		C804 C806	1-164-695-11 1-136-161-00 1-124-907-11	FILM	0.0022MF 0.047MF 10MF	5% 20%	50V 50V 50V

D5	5 D										
REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON		REMARK
C807 C823	1-102-002-00 1-124-902-00		680PF 0.47MF	10% 20%	500V 50V	R846 R847	1-216-671-11 1-216-699-11		6.8K 0.5 100K 0.5		
C827 C847 C852 C853	1-164-299-11 1-124-477-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 47MF	5% 10% 20%	63V 16V 25V 25V	R867 R884 R891	1-216-113-00 1-216-693-11 1-216-075-00	METAL CHIP METAL GLAZE	12K 5%	1/10 0% 1/10 1/10	W W
C857	1-124-902-00		0.47MF	20%	50V	*******				*****	*****
C861 C866 C870 C871	1-130-777-00 1-137-364-11 1-137-364-11 1-130-651-00	FILM FILM	0.1MF 0.001MF 0.001MF 0.001MF	5% 5% 5% 2%	63V 50V 50V 100V		*A-1642-097-A 4-201-023-01	*******	****		
C872	1-124-907-11		10MF	20%	50V		*4-368-683-21 4-389-343-21	SPRING, TRANSPRING, IC	ISISTOR		
C873	1-137-364-11	FILM	0.001MF	5%	50V		4-812-134-00	RIVET NYLON,	3.5		
	< CO1	NECTOR >					< CAP	PACITOR >			
CN2044	*1-573-299-11	CONNECTOR, BO	DARD TO BOAR	D 10P		C601 C602	1-130-202-00 1-162-116-00		0.022MF 680PF	10% 10%	400V 2KV
D804	< DIC 8-719-901-33	DIODE 1SS133				C603 C605 C608	1-161-742-00 1-124-910-11 1-124-903-11	CERAMIC ELECT	0.0022MF 47MF 1MF	20% 20% 20%	400V 50V 50V
D808 D818 D821	8-719-109-93 8-719-914-44	DIODE RD5.6ES DIODE RD6.2ES DIODE DAP202E	3B2			C611 C612	1-102-002-00 1-130-481-00	FILM	680PF 0.0068MF	10% 5%	500V 50V
D827 D830 D831	8-719-914-44	DIODE MTZJ-T- DIODE DAP202E DIODE DAN202E				C613 C614 C615	1-129-722-00 1-102-030-00 1-124-962-11	CERAMIC	0.047MF 330PF 2200MF	10% 10% 20%	630V 500V 25V
D832 D833	8-719-914-44	DIODE DAP2021 DIODE DAP2021	ζ			C616 C617 C618	1-162-115-00 1-162-116-00 1-162-134-11	CERAMIC	330PF 680PF 470PF	10% 10% 10%	1KV 2KV 2KV
	< IC	>				C619 C620	1-102-030-00 1-164-299-11	CERAMIC	330PF	10%	500V
IC802	8-759-103-93	IC UPC393C								10%	25V
	< TRA	ANSISTOR >				C621 C622	1-124-347-00 1-128-320-11	ELECT	100MF 2200MF	20% 20%	160V 16V
Q804 Q805 Q812	8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G			C623 C624 C625	1-102-030-00 1-126-800-51 1-126-800-51	ELECT	330PF 2200MF 2200MF	10% 20% 20%	500V 25V 25V
Q818	8-729-216-22	TRANSISTOR 25	SA1162-G			C627 C628	1-136-553-11 1-124-477-11		0.0015MF 47MF	10% 20%	400V 25V
	< RES	SISTOR >				C629 C631	1-124-907-11 1-163-075-00	ELECT	10MF	20% 10%	50V 25V
JR802 JR803 JR804	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5% 0 5%	1/10V 1/10V 1/10V	W	C632	1-137-372-11	FILM	0.022MF	5% 10%	50V 25V
R802 R805 R806	1-216-295-91 1-216-679-11 1-216-061-00	METAL GLAZE METAL CHIP	0 5%	1/10V % 1/10V % 1/10V	N N	C636 C640 C645 C646	1-130-777-00 1-124-916-11 1-128-571-11 1-124-798-11	FILM ELECT	0.1MF 22MF 56MF 1MF	5% 20% 20% 20%	63V 50V 50V 160V
R808 R809	1-216-085-00 1-216-097-00		33K 5% 100K 5%	1/10V 1/10V		C647	1-124-907-11		10MF	20%	50V
R813 R814 R815 R820	1-216-065-00 1-216-091-00 1-216-081-00 1-216-097-00	METAL GLAZE METAL GLAZE	4.7K 5% 56K 5% 22K 5% 100K 5%	1/10V 1/10V 1/10V 1/10V	∛ Ñ	C801 C805 C808 C809	1-137-116-11 1-124-902-00 1-162-114-00 1-124-808-51	ELECT CERAMIC	1MF 0.47MF 0.0047MF 10MF	5% 20% 20%	200V 50V 2KV 200V
R824	1-216-675-11			% 1/10V		C810 C812	1-163-001-11 1-162-318-11		220PF 0.001MF	10% 10%	50V 500V
R828 R829 R830 R832	1-216-121-00 1-249-429-11 1-216-687-11 1-216-081-00	CARBON METAL CHIP	1M 5% 10K 5% 33K 0.509 22K 5%	1/10V 1/4W % 1/10V 1/10V	F N	C813 C815 C819	1-108-704-11 1-162-117-00 1-126-103-11		0.1MF 100PF 470MF	10% 10% 20%	200V 500V 16V
R834 R835 R837	1-216-097-00 1-216-057-00	METAL GLAZE	100K 5% 2.2K 5%	1/10V	q q	C821 C822 C824	1-137-063-11 1-162-116-00 1-137-366-11	CERAMIC FILM	0.018MF 680PF 0.0022MF	3% 10% 5%	0 2KV 50V
R838	1-216-695-11 1-216-099-00		68K 0.509 120K 5%	% 1/10V 1/10V		C825 C826	1-162-116-00 1-137-515-11	CERAMIC FILM	680PF 0.056MF	10% 3%	2KV 400V

The components identified by shading and marked \triangle are critical for safety. Replace only with the part number specified.



REF.	NO. PA	RT NO.	DESCRIPTIO	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C828		.36-557-11 .36-189-00		0.0033MF 0.1MF	10% 5%	400V 250V	D606	8-719-302-43	DIODE EL1Z	
C831	1-1	23-932-00		4.7MF	20%	160V	D607	8-719-302-43	DIODE ELIZ	
C832		24-477-11		47MF	20%	25V	D608		DIODE RU-3AM	
C833		36-126-00		0.82MF	5%	400v	D610		DIODE ESAB85-009	
0000		.00 110 00		0.02111	3 0	2001	D611	8-719-029-04		
C834	1-1	37-114-11	FILM	0.68MF	5%	200V	D612		DIODE D10SC6M	
C835		24-480-11		470MF	20%	25V	2022	0 717 510 07	DIODE DIODEON	
C836		.02-228-00		470PF	10%	500V	D613	8-719-920-68	DIODE ESAB92-02	
C837		29-702-00		0.001MF	10%	400V	D614		DIODE ESAB92-02	
C838		08-704-11		0.1MF	10%	200V	D616		DIODE RD12ESB2	
							D619		DIODE DAN202K	
C839	1-1	.23-950-00	ELECT	47MF	20%	250V	D620	8-719-901-33		
C840		24-480-11		470MF	20%	25V				
C841		.02-228-00		470PF	10%	500V	D621	8-719-302-43	DIODE EL1Z	
C842		36-208-11	FILM	0.068MF	10%	250V	D624	8-719-312-39	DIODE R2K-V1	
C843	1-1	.24-907-11	ELECT	10MF	20%	50V	D801	8-719-018-82	DIODE RGP02-20EL-6394	
							D802	8-719-302-43	DIODE EL1Z	
C846		.23-024-21		33MF		160V	D803	8-719-982-27	DIODE MTZJ-33C	
C851		.37-364-11		0.001MF	5%	50V				
C854		61-754-00		0.001MF	10%	2KV	D809		DIODE RD7.5ESB2	
C863		.06-383-00		0.047MF	10%	100V	D811	8-719-300-33	DIODE ERB44-06TP1	
C869	1-1	.30-777-00	FILM	0.1MF	5%	63V	D812	8-719-908-03		
-055				0.004			D813	8-719-908-03		
C875		.02-038-00		0.001MF	0.00	500V	D814	8-719-979-85	DIODE EGP20G	
C877 C878		.24-902-00		0.47MF	20%	50V	2015	0.710.200.42	DT0DE 8145	
C879		.02-228-00	CERAMIC CHIP	470PF	10% 10%	50V 500V	D815 D816	8-719-302-43	DIODE EGP20G	
C882		.06-383-00		0.047MF	10%	100V	D810		DIODE MTZJ-30B	
C002	1-1	.00-363-00	MILLAN	0.04/Mr	10%	1004	D824	0-713-302-20	DIODE RGP02-17EL-6433	
C150	1 1-1	63-141-00	CERAMIC CHIP	0 001ME	5%	50V	D825		DIODE DAN202K	
C150		24-903-11		1MF	20%	50V	D023	0-713-314-43	DIODE DANSUZK	
C150			CERAMIC CHIP		5%	50V	D826	8-719-914-43	DIODE DAN202K	
C150		24-480-11		470MF	20%	25V	D828		DIODE 1SS133	
C150		24-911-11		220MF	20%	50V	D1501		DIODE DAN202K	
							D1503	8-719-908-03		
C150		30-777-00	FILM	0.1MF	5%	63V	D1504		DIODE MTZJ-3.6A	
C150	7 1-1	37-423-11	MYLAR	0.15MF	10%	100V				
C150		24-480-11		470MF	20%	25V		< IC	>	
C150		24-767-00		2.2MF	20%	50V				
C151	1 1-1	24-907-11	ELECT	10MF	20%	50V	IC601		IC TDA4605-3	
C151	2 1_1	24-006-11	PT PCM	10MF	20%	25V	IC602	8-759-908-15		
C151			CERAMIC CHIP		10%	25V 25V	IC801	8-759-103-93	IC SPE617G-1	
C151			CERAMIC CHIP		10%	25V 25V	IC803		IC MC78L12ACPRP	
0131		04 004 11	CHAMIC CHII,	V. IMI	10.0	234	10003	0-733-001-31	IC MC/OHIZACIA	
		< CON	NECTOR >				IC1501	8-759-192-71	IC STV9379	
								4-202-373-01	SPRING, IC (IC1501)	
CN00			PIN, CONNECTO		CH) 2P					
CN00 CN05			PIN, CONNECTO					< C0I	ь >	
CN05			PLUG, CONNECTO				1600	1 /10 207 01	PEDDIME DELD INDUCTOR	1 17777
CN05			PIN, CONNECTO				L602 L603		FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
CMUJ	-v I-J	00 000-1T	LIM, COMMECT	JA JE			L604	1-410-396-41	FERRITE BEAD INDUCTOR	0.450H
CN05	19 *1-5	68-878-51	PIN, CONNECTO	OR 3P			L605	1-412-528-11	INDUCTOR 18UH	0.4301
CN05			PIN, CONNECTO		CH) 3P		L606	1-412-528-11		
CN05	23 1-5	73-296-11	CONNECTOR, BO	DARD TO BOA	RD 10P					
CN05	24 *1-5		PIN, CONNECTO				L610	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
CN05	25 *1-6	95-294-11	PIN, CONNECTO	OR (PC BOAR	D) 6P		L622	1-412-533-21		
							L623	1-412-533-21		
CN05			PIN, CONNECTO				L802	1-408-947-00		
CN05			PIN, CONNECTO				L803	1-420-872-00	COIL, AIR CORE	
CN05			CONNECTOR, BO		RD 10P					A 45
CN55			PIN, CONNECTO				L804		FERRITE BEAD INDUCTOR	0.45UH
DY1	-1-2	00-/38-11	CONNECTOR PIN	א (מע) א			L807 L808	1-412-540-31		
		< DIO	חק ג				L808	1-412-552-31	INDUCTOR 2.2MMH COIL, WITH CORE	
		< DIO) i				L810		COIL, FERRITE (PMC)	
D601	8-7	19-914-44	DIODE DAP202E	ζ			1010	7-400-131-71	COID, FERRITE (PMC)	
D602			DIODE EL1Z				L811	1-412-519-11	INDUCTOR 3.3UH	
D604	8-7		DIODE RD15ESE	31			L812	1-412-519-11	INDUCTOR 3.3UH	
D605	8-7	19-975-56	DIODE 1SS1202	4			L813	1-412-519-11		



R611

R612

R613

R614

R615

R618

R620

R621

R622

R623

R625

R626

R627

R629

R630

R631

1-215-887-00

1-260-131-11

1-216-259-00

1-216-488-11

1-216-449-11

1-216-659-11

1-216-041-00

1-216-073-00

1-249-398-11

1-215-464-00

1-249-421-11

METAL OXIDE

METAL GLAZE

METAL OXIDE

METAL OXIDE

METAL CHIP

METAL GLAZE

CARBON

METAL.

CARBON

METAL GLAZE

CARBON

1-216-488-11 METAL OXIDE

1-216-045-00 METAL GLAZE

1-216-449-11 METAL OXIDE

1-216-635-11 METAL CHIP

1-216-398-11 METAL OXIDE

150

470K

360K

18K

18K

680

470

10K

56

220

62K

5.6

2.2K

27

2.2K

56

5%

2W F

1/2W

R853

R854

The components identified by shading and marked \triangle are critical for safety.

Replace only with the part number

specified.

REF.NO PART NO. DESCRIPTION REMARK REF.NO. PART NO. DESCRIPTION REMARK 1.817 1-423-963-11 TRANSFORMER, LINEARITY (HLT) R633 1-249-415-11 CARBON 680 1/4W L818 1-459-104-00 COIL, WITH CORE R634 1-215-477-00 METAL 220K 1% 1/4W 1-412-525-21 L1501 INDUCTOR R635 1-216-073-00 METAL GLAZE 10K 5% 1/10W L1502 1-412-525-21 INDUCTOR 10UH R636 1-215-925-11 METAL OXIDE 22K 5% 3W T.1503 1-412-525-21 TNDHCTOR 10TH R637 1-216-113-00 METAL GLAZE 470K 5% 1/10W < TO LINK > R638 1-216-073-00 METAL GLAZE 10K 5% 1/10W 1-216-089-91 R639 METAL GLAZE 47K 5% 1/10W A 1-532-686-91 LINK; IC 2.74 (ICP+N50) R640 1-207-905-00 WIREWOUND 0.27 10% 2W 1-532-686-91 LINK, IC 2.7A (ICP-N50) 1-532-686-91 LINK, IC 2.7A (ICP-N50) 1.10 R642 1-216-374-00 METAL OXIDE 2.7 5% 2W "NEED!" R643 1-249-417-11 CARBON 5% 1/4W 1 K A 1-532-686-91 LTMK, IC 2.74 (TCP-N50) R645 1-215-464-00 METAL 62K 1/4W < TRANSISTOR > 1-216-097-00 R646 METAL GLAZE 100K 5% 1/10W R647 1-216-059-00 METAL GLAZE 5% 2.7K 1/10W Q601 8-729-016-14 TRANSISTOR BUZ91A-E3155 1-249-424-11 R648 CARBON 3.9K 5% 1/4W 4-200-001-01 HOLDER, IC (Q601) R649 1-216-270-00 METAL GLAZE 1M 1/8W 0602 8-729-177-22 TRANSISTOR 2SB772-Q Q603 8-729-900-53 TRANSISTOR DTC114EK R650 1-216-113-00 METAL GLAZE 470K 1/10W TRANSISTOR 2SD2012 0604 8-729-209-15 R651 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R652 1-216-109-00 METAL GLAZE 330K 5% 1/10W 8-729-255-12 TRANSISTOR 2SC2551-0 0605 R653 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W Q606 8-729-216-22 TRANSISTOR 2SA1162-G R654 1-215-904-11 METAL OXIDE 100K 2W 0611 8-729-119-78 TRANSISTOR 2SC2785-HFE 8-729-903-29 TRANSISTOR DTA144TK 0612 R655 1-216-065-00 METAL GLAZE 4.7K 1/10W 0613 8-729-216-22 TRANSISTOR 2SA1162-G R656 1-216-033-00 METAL GLAZE 220 5% 1/10W R657 1-247-811-31 CARBON 5% 150 1/4W 0801 8-729-016-32 TRANSISTOR 2SC4927-01 R801 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W 4-202-373-01 SPRING, IC (Q801) R804 1-217-778-11 FUSTRIE 1K 5% 1W 0802 TRANSISTOR 2SB734-34 8-729-140-97 Q806 8-729-019-71 TRANSISTOR 2SK1916-53-F50 R807 1-216-037-00 METAL GLAZE 330 5% 1/10W 0807 8-729-119-80 TRANSISTOR 2SC2688-LK 1-216-033-00 R811 METAL GLAZE 220 5% 1/10W R812 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W 0813 8-729-140-96 TRANSISTOR 2SD774-34 R818 1-216-685-11 METAL CHIP 27K 0.50% 1/10W 1-247-755-11 Q1501 8-729-920-74 TRANSISTOR 2SC2412K-OR R819 CARBON 1.8K 5% 1/2W F Q1502 TRANSISTOR DTC144EK 8-729-901-01 Q1503 8-729-216-22 TRANSISTOR 2SA1162-G R821 1-216-481-11 METAL OXIDE 1.2K 5% 3W 01504 8-729-901-01 TRANSISTOR DTC144EK R822 1-216-481-11 METAL OXIDE 1.2K 5% 3W F R823 1-216-065-00 METAL GLAZE 5% 1/10W 4.7K < RESISTOR > R825 1-216-342-11 METAL OXIDE 5% 0.27 1W F 1/8W R826 1-216-166-00 METAL GLAZE 47 FS046 1-249-399-11 CARBON 33 5% 1/4W F R833 1-216-105-00 METAL GLAZE 220K 1/10W R602 1-216-081-00 METAL GLAZE 22K 5% 1/10W R836 1-216-242-91 METAL GLAZE 68K 5% 1/8W METAL OXIDE R603 1-215-901-00 5% 33K 2W F R839 1-216-665-11 METAL CHIP 3.9K 0.50% 1/10W R604 1-260-200-11 5% CARBON 240K 1/2W R840 1-216-097-00 METAL GLAZE 100K 5% 1/10W R605 1-216-295-91 METAL GLAZE 0 5% 1/10W R841 1-249-397-11 CARBON 5% 22 1/4W F R606 1-216-035-00 METAL GLAZE 270 5% 1/10W RRA2 1-216-454-11 METAL OXIDE 390 5% 2W F R607 1-216-210-00 METAL GLAZE 3 3K 1/8W R848 1-215-885-00 METAL OXIDE 5% 2W 68 F R608 1-215-903-11 METAL OXIDE 68K 5% 2W R849 1-215-884-11 METAL OXIDE 5% 47 2W F R609 1-249-395-11 CARBON 15 5% 1/4W R851 1-247-743-11 CARRON 220 5% 1 / 2W F R610 1-247-881-00 CARBON 120K 5% 1/4W 1-249-389-11 R852 CARBON 4.7 5% 1/4W F

1-249-443-11

1-249-443-11

CARBON

CARBON

5%

5%

1/4W F

1/4W

0.47

0.47

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Replace only with the part number specified.





REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
R897	1-216-089-91	METAL GLAZE	47K 5%	1/10		D1705	8-719-982-37	DIODE MTZJ-39)C			
R898 R899	1-216-262-00 1-249-377-11	CARBON	470K 5% 0.47 5%	1/8W 1/4W	F	D1706	8-719-901-33					
R1501 R1502	1-216-676-11 1-216-666-11		11K 0.50 4.3K 0.50	0% 1/10% 0% 1/10%		D1707	8-719-901-33					
R1503	1-216-065-00		4.7K 5%	1/10		r 1700	< COI		56UH			
R1504 R1505	1-216-081-00 1-216-081-00	METAL GLAZE	22K 5% 22K 5%	1/100 1/100 1/100	N	L1702	1-408-418-00	INDUCTOR NSISTOR >	2001	37)		
R1506 R1506	1-216-053-00 1-216-057-00		1.5K 5% 2.2K 5%	1/100		Q1701		TRANSISTOR 28	20785_	. WER		
R1508 R1509	1-216-683-11 1-216-689-11	METAL CHIP		0% 1/10% 0% 1/10%		Q1702 Q1703	8-729-173-38	TRANSISTOR 25	SA733-K			
R1510 R1511	1-249-382-11 1-215-888-00	CARBON	1.2 5% 220 5%	1/4W 2W		Q1704	*4-368-683-21		SISTOR)	
R1512	1-216-370-11		1.2 5%	2W	F	Q1705		TRANSISTOR 25				
R1514 R1550	1-216-049-00 1-216-113-00		1K 5% 470K 5%	1/10		Q1706	*4-368-683-21		SISTOR)	
R1551 R1552	1-216-065-00 1-216-113-00	METAL GLAZE	4.7K 5% 470K 5%	1/10		Q1707 Q1708		TRANSISTOR 25		4		
	< VAR	IABLE RESISTO	R >			Q1709	8-729-255-12	TRANSISTOR 25	SC2551-	0		
RV601	1-241-628-11	RES, ADJ, CA	RBON 2.2K				< RES	SISTOR >				
	< TRA	NSFORMER >				R1701 R1702	1-247-807-31 1-249-420-11		100 1.8K	5% 5%	1/{W 1/{W	
	A 1-423-738-11			av inv	200431	R1703 R1704	1-247-807-31	CARBON	100 1.8K	5%	1/!W 1/!W	
T803	1-453-171-11 1-437-090-00	HDT			20U2AZ)	R1704 R1705	1-247-736-11		56	5%	1/1W	F
Т895	1-413-059-00	TRANSFORMER,	FERRITE (D	FT)		R1706	1-249-414-11	CARBON	560	5%	1/IW	F
******	*****	********	******	******	*****	R1707 R1709	1-249-412-11 1-249-416-11		390 820	5% 5%	1/IW 1/IW	
	*A-1644-040-A	VM BOARD, CO				R1710 R1711	1-249-385-11 1-249-432-11	CARBON	2.2 18K	5% 5%	1/W 1/W	F
	< CAP	PACITOR >				R1712	1-249-435-11	CARBON	33K	5%	1/W	
C1701	1-124-119-00	ELECT	330MF	20%	16V	R1713 R1714	1-249-438-11 1-249-429-11		56K 10K	5% 5%	1/W 1/W	
C1702 C1703	1-101-880-00 1-102-115-00	CERAMIC	47PF 560PF	5% 10%	50V 50V	R1715 R1716	1-216-476-11 1-249-417-11	METAL OXIDE	180 1K	5% 5%	3W 1/W	F
C1704	1-161-830-00	CERAMIC	0.0047MF		500V							•
C1705	1-124-120-11		220MF	20%	16V	R1717 R1718	1-249-432-11 1-249-410-11	CARBON	18K 270		1/W 1/W	
C1706 C1707	1-123-935-00 1-124-907-11	ELECT ELECT	33MF 10MF	20% 20%	160V 50V	R1719 R1720	1-249-419-11 1-249-441-11	CARBON	1.5K 100K		1/W 1/W	
C1708 C1709	1-101-006-00 1-108-704-11		0.047MF 0.1MF	10%	50V 200V	R1721	1-249-414-11	CARBON	560	5%	1/W	
C1710	1-136-207-11		0.047MF	10%	250V	R1722 R1723	1-249-385-11 1-249-429-11		2.2 10K	5% 5%	1/W 1/W	
C1711	1-162-318-11		0.001MF	10%	500V	R1724	1-249-436-11	CARBON	39K	5%	1/W	
C1712 C1713	1-124-799-11 1-162-318-11	CERAMIC	2.2MF 0.001MF	20% 10%	160V 500V	R1725 R1726	1-249-417-11 1-249-411-11		1K 330	5% 5%	1/₩ 1/₩	
C1714 C1716	1-136-207-11 1-124-907-11		0.047MF 10MF	10% 20%	250V 50V	R1727	1-249-402-11	CARBON	56	5%	1/W	F
C1718	1-124-120-11		220MF	20%	16V	R1729 R1731	1-216-451-11 1-249-420-11	METAL OXIDE	120 1.8K	5%	2₩ 1/₩	F
C1719	1-124-927-11		4.7MF	20%	50V	R1732 R1734	1-249-426-11 1-249-419-11	CARBON	5.6K 1.5K		1/W 1/W	
	< CON	NECTOR >										
CN1819	*1-568-882-51	PIN, CONNECT	OR 7P									
	< DIC	DDE >										
D1701 D1702 D1703 D1704	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE MTZJ-3										



The components identified by shading and marked 🛧 are critical for safety.

Replace only with the part number specified.

	<u> </u>	-	U				Samuel Control					
REF.NO.	PART NO.	DESCRIPTION	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
	*1-648-314-11	H1 BOARD						*A-1649-009-A	K1 BOARD, CO	MPLETE		
	< SOC	CKET >						4-201-023-01 4-202-373-01	SPACER, INSU	LATING		
	1-562-837-11 1-568-678-11	JACK TERMINAL BLOC	ж, s з	P					PACITOR >			
	< CAI	PACITOR >					C261	1-163-005-11			10%	50V
C083 C087		CERAMIC CHIP CERAMIC CHIP			10% 10%	25V 25V	C262 C263 C264 C265	1-124-925-11 1-164-161-11 1-124-916-11 1-101-006-00	CERAMIC CHIP ELECT	2.2MF 0.0022MF 22MF 0.047MF	20% 10% 20%	50V 50V 50V 50V
	< COM	NNECTOR >										
CN1008 CN1018		PLUG, CONNECTO					C266 C267 C268 C271	1-130-772-00 1-124-618-11 1-124-618-11	ELECT ELECT	0.22MF 2200MF 2200MF	5% 20% 20%	63V 35V 35V
	< CO1	IL >					C272	1-130-772-00 1-124-925-11		0.22MF 2.2MF	5% 20%	63V 50V
L081 L082	1-408-409-00 1-408-409-00		10UH 10UH				C273 C275	1-164-161-11 1-124-916-11		0.0022MF 22MF	10% 20%	50V 50V
	< RES	SISTOR >						< CON	NECTOR >			
JR021 R081	1-216-295-91 1-216-073-00		0 10K	5% 5%	1/10W		CN1312 CN1346 CN1349	1-508-784-00 *1-564-506-11 *1-564-507-11	PLUG, CONNEC	TOR 3P	CH) 1P	
R082 R083	1-216-065-00 1-216-057-00		4.7K 2.2K		1/10W 1/10W			< DIO				
R084 R085	1-216-202-00 1-216-202-00	METAL GLAZE	1.5K 1.5K	5%	1/8W 1/8W		D261	8-719-901-33				
	< SW1	ITCH >					D262 D263	8-719-901-33 8-719-901-33	DIODE 1SS133			
S081	1-571-532-21	SWITCH, TACTI	L				D264 D265	8-719-901-33 8-719-901-33				
S082 S083		SWITCH, TACTI SWITCH, TACTI					D266	8-719-901-33	DIODE 1SS133			
*****	*********	******	*****	*****	*****	*****		< IC	>			
	*1-652-942-11	H2 BOARD					IC270 IC280	8-759-072-99 8-759-072-99				
	*4-201-076-01 *4-374-987-01	HOLDER, LED						< RES	ISTOR >			
	4-381-686-01	BRACKET (B),	LIGHT	GUIDE			R261 R262	1-216-081-00 1-216-049-00		22K 5%	1/10W	
	< COM	NNECTOR >					R263 R264	1-216-081-00 1-216-081-00	METAL GLAZE	1K 5% 22K 5%	1/10W 1/10W	
CN1132	*1-568-882-51	PIN, CONNECTO	R 7P				R265	1-216-045-00		22K 5% 680 5%	1/10W 1/10W	
	< DIC	DDE >					R266	1-216-041-00 1-217-477-00		470 5%	1/10W	
D092 D093		DIODE LD-201V DIODE LD-201V					R268 A	1-217-477-00 1-216-081-00	PUSIBLE	4:7 - 5%		7
D094		DIODE LD-201V					R270	1-216-041-00		22K 5% 470 5%	1/10W 1/10W	
	< IC	>					R271 R272	1-216-049-00 1-216-081-00		1K 5% 22K 5%	1/10W 1/10W	
IC091	8-741-101-75	IC SBX1610-11					R273 R274	1-216-081-00 1-216-045-00	METAL GLAZE	22K 5% 680 5%	1/10W 1/10W	
	< RES	SISTOR >						*****				
JR160 JR161	1-216-296-91 1-216-296-91		0	5% 5%	1/8W 1/8W			*A-1651-064-A		PLETE		
R091	1-216-190-00	METAL GLAZE	470	5%	1/8W			< CAP	ACITOR >			
							C281 C295	1-124-119-00 1-163-009-11	ELECT	330MF 0.001MF	20% 10%	16V 50V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
			4.00							
C296 C906	1-163-009-11 1-101-004-00	CERAMIC CHIP 0.001MF CERAMIC 0.01MF	10%	50V 50V		< RES	ISTOR >			
C910	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	JR901	1-216-295-91	METAL GLAZE	0	5%	1/10W
6310	1 103 017 00	Chidalic Chil 0.0017m	10.0	301	JR906	1-216-295-91		ŏ	5%	1/10W
C911	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	JR915	1-216-295-91		Ö	5%	1/10W
C912	1-163-133-00		5%	50V	JR917	1-216-296-91		0	5%	1/8W
C913	1-163-133-00		5%	50V	JR918	1-216-295-91	METAL GLAZE	0	5%	1/10W
C914	1-163-121-00		5%	50V		4 04 5 00 5 04				4.10-
C915	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	JR919 JR920	1-216-296-91 1-216-295-91		0	5% 5%	1/8W 1/10W
C916	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	JR921	1-216-295-91		0	5%	1/10W 1/10W
C917	1-163-017-00		10%	50V	JR924	1-216-296-91		Ö	5%	1/8W
C922	1-124-477-11		20%	16V	JR926	1-216-296-91		Ö	5%	1/8W
C923	1-164-346-11			16V						
C924	1-124-477-11	ELECT 47MF	20%	16V	JR927	1-216-296-91		0	5%	1/8W
6005	4 404 400 44	77 POT 4 TVP	0.00	1.6**	JR928	1-216-296-91		0	5%	1/8W
C925	1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF	20%	16V 16V	JR935 JR940	1-216-296-91 1-216-296-91		0	5% 5%	1/8W 1/8W
C926 C927	1-124-477-11		20%	16V	JR942	1-216-296-91		0	5%	1/8W
C928	1-124-477-11		20%	16V	ONSTE	1 210 250 51	MITTE GENER	v	5.0	1,01
C929	1-124-477-11		20%	16V	JR952	1-216-296-91	METAL GLAZE	0	5%	1/8W
					JR954	1-216-295-91		0	5%	1/10W
C930	1-124-477-11		20%	16V	JR955	1-216-296-91		0	5%	1/8W
C931	1-164-346-11			16V	JR956	1-216-295-91		0	5%	1/10W
C932	1-164-346-11	CERAMIC CHIP 1MF		16V	JR957	1-216-295-91	METAL GLAZE	0	5%	1/10W
	< CON	INECTOR >			R283	1-216-073-00	METAL CLAZE	10K	5%	1/10W
	\ C01	MECION >			R284	1-216-073-00		10K	5%	1/10W
CN1209	1-695-302-11	CONNECTOR, BOARD TO BOA	RD 50P		R287	1-216-216-00		5.6K		1/8W
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P			R288	1-216-216-00		5.6K	5%	1/8W
CN1233		PLUG, CONNECTOR 3P			R289	1-216-063-00	METAL GLAZE	3.9K	5%	1/10 W
CN1240	*1-564-519-11	PLUG, CONNECTOR 4P			D200	1 216 216 00	WEMAT OLAGE	E 67	E0.	1 / Ovr
	< DIC	אחוד ג			R290 R291	1-216-216-00 1-249-413-11		5.6K 470	5% 5%	1/8W 1/4W
	\ DIO	<i>,</i>			R292	1-249-413-11		470	5%	1/4W
D903	8-719-921-69	DIODE MTZJ-9.1			R911	1-216-022-00		75	5%	1/10W
D904	8-719-921-69	DIODE MTZJ-9.1			R921	1-216-022-00	METAL GLAZE	75	5%	1/1 W
D907	8-719-921-69							4.4		4.14
D908	8-719-921-69				R922	1-216-222-00		10K	5%	1/8%
D909	8-719-921-69	DIODE MTZJ-9.1			R923 R924	1-216-039-00 1-216-039-00		390 390	5% 5%	1/1 iW 1/1 iW
D910	8-719-921-69	DIODE MTZJ-9.1			R925	1-216-089-91		47K	5%	1/1(W
D911		DIODE MTZJ-9.1			R926	1-216-039-00		390	5%	1/1/W
D912	8-719-921-69	DIODE MTZJ-9.1								
D913	8-719-921-69				R927	1-216-039-00		390	5%	1/11 W
D914	8-719-921-69	DIODE MTZJ-9.1			R928	1-216-089-91		47K	5%	1/1/W
D915	0_710_021_60	DIODE MTZJ-9.1			R929 R930	1-216-063-00 1-216-113-00		3.9K 470K		1/1IW 1/1IW
D916		DIODE MTZJ-9.1			R931	1-216-212-00		3.9K		1/8%
D917		DIODE MTZJ-9.1			1,501			0131	50	-/ 01
D924	8-719-921-69	DIODE MTZJ-9.1			R932	1-216-113-00		470K	5%	1/1 W
D925	8-719-921-69	DIODE MTZJ-9.1			R933	1-216-073-00		10K	5%	1/1/W
2006	0 710 001 60	DTODE MET A 1			R934	1-216-063-00		3.9K		1/1/W
D926 D927		DIODE MTZJ-9.1 DIODE MTZJ-9.1			R935 R936	1-216-022-00 1-216-022-00		75 75	5% 5%	1/1/64 1/1/64
D928		DIODE MTZJ-9.1			N930	1-210-022-00	MEIRD GLAZE	13	74	1/1/9/
D999		DIODE RD15ESB1			R937	1-216-113-00	METAL GLAZE	470K	5%	1/1(W
					R938	1-216-039-00	METAL GLAZE	390	5%	1/1 W
	< SOC	CKET >			R939	1-216-188-00		390	5%	1/8%
-001	1 505 505 44				R940	1-216-063-00		3.9K		1/1(W
J291 J903		TERMINAL BOARD (2P) SOCKET, PIN 21P			R941	1-216-113-00	METAL GLAZE	470K	5%	1/1(W
J903	1-695-550-11	SOCKET, PIN ZIP			R942	1-216-188-00	METAL GLAZE	390	5%	1/8)
J905	1-695-293-11				R943	1-216-089-91		47K	5%	1/1(W
					R944	1-216-188-00		390	5%	1/8)
	< TRA	ANSISTOR >			R945	1-216-089-91	METAL GLAZE	47K	5%	1/1/2
0001	A 84				R959	1-216-674-11	METAL CHIP	9.1K	0.50%	1/1/1
Q281		TRANSISTOR 2SC2412K-QR			D0.00	1 016 654 44	WEEDL OUTD	0 1**	0 500	1 /1 ===
Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR			R960 R968	1-216-674-11 1-216-055-00		9.1K 1.8K	0.50%	1/1 W 1/1 W
					R969	1-216-055-00		1.8K		1/11 W
					R970	1-216-055-00		1.8K		1/1



DESCRIPTION REF.NO. PART NO. REMARK R977 1-216-055-00 METAL GLAZE 1.8K 5% *******************

MISCELLANEOUS

1-452-509-41 NECK ASSY, PICTURE TUBE (NA-308) 1-406-807-11 COIL, DEMAGNETIZATION 8-451-422-11 DEFLECTION YOLK (Y29GKA) 1-452-032-00 MAGNET, DISK; 10MM 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM

1-544-475-21 SPEAKER V901 A 8-733-853-05 PICTURE TUBE (M68LCT60X)

ACCESSORIES AND PACKING MATERIALS **********************

4-202-736-71 MANUAL, INSTRUCTION (KV-A2943E) 4-202-736-41 MANUAL, INSTRUCTION (KV-A2941A) 4-202-736-51 MANUAL, INSTRUCTION (KV-A2941B) 4-202-736-11 MANUAL, INSTRUCTION (KV-A2941D) 4-202-736-91 MANUAL, INSTRUCTION (KV-A2941K) 4-202-736-61 MANUAL, INSTRUCTION (KV-A2942U) 4-039-906-01 BAG, PROTECTION

4-202-502-01 CUSHION (LOWER) (ASSY) 4-202-503-01 CUSHION (UPPER) (ASSY)

4-202-504-01 INDIVIDUAL CARTON

REMOTE COMMANDER ******

1-467-272-11 REMOTE COMMANDER RM-831

9-903-466-01 POCKET COVER (FOR RM-831)

shading and marked A are critical for safety. Replace only with the part number

The components identified by

specified.

DESCRIPTION

REF.NO.

PART NO.

REMARK